



**INNOVATION  
PRECISION  
EXCELLENCE**

**DENTAL CATALOG**



## VOCO: INNOVATIVE SOLUTIONS

VOCO's reputation for being a global leader in the manufacturing of dental materials and technologies can be traced back to its early beginnings over 40 years ago. Based out of Cuxhaven, Germany, VOCO performs extensive research and development in the fields of dental restoratives, adhesives and many other materials and technologies, setting new standards in the creation of innovative dental products and application aids to provide better solutions to dentists throughout the world and here in North America.

VOCO researchers partner and maintain close contact with over 150 universities and research institutes worldwide, and have led several research projects co-sponsored by the German Federal Ministry of Research. This has enabled VOCO to act as a technological forerunner in several material development areas. A leader in Nano-technology, VOCO's products have received high praise and recognition in North America with 4 and 5 star ratings from the The Dental Advisor, Reality and other independent institutes.

As a global player, VOCO exports to over 100 countries on 6 continents. In the United States, VOCO is proud to offer you products through Patterson, Henry Schein, Benco and Burkhart. Most locations in the US can enjoy next-day delivery through these fine distributors.

In Canada, VOCO products are available through Henry Schein Dental, Patterson Dental, Sinclair Dental, K-Dental and Central Dental.

We are proud to offer you Great Products, Great Quality, Great Support and Great Value.

For detailed information please visit:

**vocoamerica.com**

To order or for more information, contact your local VOCO representative.

**1-888-658-2584**

Very Truly Yours,

**VOCO**  
THE DENTALISTS

**Innovation  
Precision  
Excellence**

**Made in Germany**

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# ICONS

The following icons enable you to quickly find the right product, make a first assessment and judgment within seconds, and quickly gain a general overview. For detailed information regarding the use of any product, please consult the instructions for use.



## Material composition

Both the fillers and the resin matrix of this product are based purely on silicon oxide.



## Material composition

This product is based on nano-hybrid technology.



## Curing of the material

This product either cures through exposure to light or it self-cures chemically.



## Curing of the material

This product self-cures chemically.



## Curing of the material

This product cures through exposure to light. The time indicated represents the average time.



## Method of application

Preparatory conditioning of the tooth surface is not required before application of this material to the tooth.



## Method of application

Separate etching of the tooth surface is necessary before the adhesive system (bond) is used.



## Method of application

No separate etching of the tooth surface is required before the adhesive system (bond) is used.



## Indications

According to the indications, this product is suitable for fillings of the cavity classes listed.



## Volumetric shrinkage

During setting, this product is subject to the volume shrinkage indicated in percent, measured as a change in percent of total volume.



## Filler content

This product has a defined filler content, which is indicated in percent by weight.



## Hardness of the material

This product possesses the shore A hardness shown.



## Radiopacity

After completion of the working process, this material is highly radiopaque. The value shown indicates the radiopacity in percent relating to the aluminium equivalent.



## Working directions

This material is suitable for bulk fillings with a maximum layer thickness of 4 mm.



## Fluoride content

This product contains the level of fluoride indicated.



## Material compatibility

This product can be used with the materials indicated.



## Application of the material

This material is available in the non-running, non-dripping NDT®-syringe.



## CAD/CAM

This product is suitable for use in digital dentistry.



## Indication of retention time in the mouth

This product is retained in the mouth for the minimum duration shown.



## Indication of working time

The maximum extraoral working time for this product is as shown.



## No Parabens

This product does not contain the hormone disrupting class of compounds know as parabens.



## Non-sedimenting

This product is non-sedimenting. The product enables additive manufacturing of objects from homogeneous solution throughout the entire printing process.



## Application of the material

When heated, the viscosity of this material changes, thus uniting the respective advantages of flowable and sculptable materials. Specifically designed to be heated for use.



## Application of the material

This material is automatically mixed in the correct ratio before application.





# PREVENTIVE CARE

## Protective Dental Care

Remin Pro	6
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## Fluoride Varnish

VOCO Profluorid Varnish	7
VOCO Profluorid L	8
Bifluorid 10	9

## Desensitizer/Sealant

Admira Protect	10
Grandio Seal	10

## Remin Pro

Triple protective dental tooth cream  
without the risk of milk protein allergies



Not available  
in Canada!



### Indications

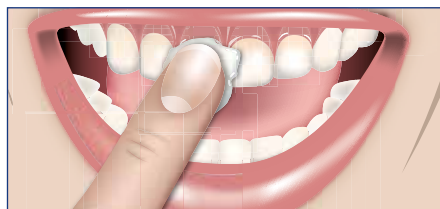
After whitening

After professional cleaning

Prevention and control of hypersensitivities



### How to apply Remin Pro



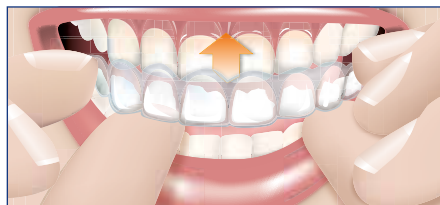
#### Applying Remin Pro with Your Finger or Cotton Swab

Apply a pea sized portion using your finger or cotton swab making sure to cover all tooth surfaces. Expel any leftover material. Remin Pro should remain in the mouth for 3 minutes, uninterrupted.



#### Applying Remin Pro with Your Toothbrush

Apply a pea sized portion to a soft toothbrush and lightly brush across all tooth surfaces. Expel any leftover material. Remin Pro should stay in the mouth for 3 minutes, uninterrupted.



#### Applying Remin Pro in a Custom Tray

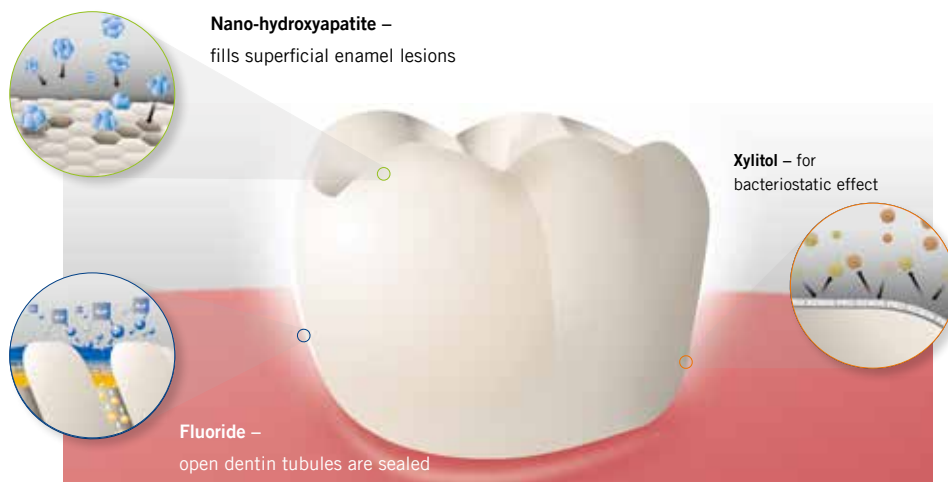
Apply Remin Pro in a custom tray as directed by your dental professional.

### Advantages

- Triple protection of fluoride, Nano-hydroxyapatite (calcium and phosphate) and Xylitol
- Nano-hydroxyapatite restores the mineral balance
- 61% more fluoride (1,450 ppm) than the leading brand
- Contains Xylitol known for its cariostatic properties
- No risk of milk protein allergies as with other brands
- Fast-acting and great-tasting
- Easy to apply with a finger, soft toothbrush or in a tray
- CDT Insurance Code 9910 can be used as an application for desensitizing medicament<sup>1</sup>

### Presentation

REF 2003	12 × 40 g tube melon
REF 2004	12 × 40 g tube mint
REF 2005	12 × 40 g tube strawberry
REF 2006	12 × 40 g tube (4 each × melon, mint, strawberry)
REF 2007	3 × 40 g tube (1 each × melon, mint, strawberry)



## VOCO Profluorid® Varnish

Easy, tasteful and transparent  
5% Sodium Fluoride Varnish



### Indications

Treatment of hypersensitive teeth

Sealing the dentinal tubules for cavity preparations or on sensitive root surfaces

### Advantages

- Easy non-messy SingleDose delivery system
- No yellow discoloration of teeth
- In seven flavors without the unpleasant aftertaste of some other brands
- Adheres well to moist surface and sets quickly in seconds after contact with saliva
- High immediate fluoride release to relieve hypersensitivity
- Enhanced flow characteristics allow Profluorid Varnish to reach areas traditional varnishes may miss
- Contains Xylitol
- Does not contain: tree nuts, peanuts, corn, shellfish, eggs, milk protein, soy, gluten, triclosan, petroleum, red dye/artificial coloring, saccharin or aspartame

### USA:

- CDT Insurance Code 1206 can be used for topical application of fluoride varnish<sup>1</sup>
- CPT Insurance Code 99188 for medical claims

### CANADA:

- Code CDHA 00611
- Code CDA 12113

### Presentation

REF 2225 Pack 48 x 0.4 ml SingleDose, assorted, accessories

REF 1268 Pack 50 x 0.25 ml melon, accessories

Flavor	SingleDose 50 x 0.4 ml	SingleDose 200 x 0.4 ml
melon	REF 1269	REF 1271
caramel	REF 2226	REF 2229
cherry	REF 2227	REF 2230
mint	REF 2228	REF 2231
bubble gum	REF 2238	REF 2239
cola lime	REF 2240	REF 2241
pina colada	REF 2242	REF 2243

Flavor	Tube 10 ml
melon	REF 1267
caramel	REF 2232
cherry	REF 2233
mint	REF 2234
cola lime	REF 2236
pina colada	REF 2237



### Application of Profluorid Varnish



## VOCO Profluorid® L

Clear 5% Sodium Fluoride Liquid Varnish – specially formulated not to interfere with bleaching procedures



Not available  
in Canada!



### Indications

Treatment of hypersensitive teeth  
Sealing of the dentinal tubules for cavity preparations  
or on sensitive root surfaces  
Cavity liner under amalgam restorations  
Desensitizer before and after bleaching

### Presentation

REF 1590 Pack 50 x .04 ml SingleDose,  
accessories  
REF 1591 Pack 200 x .04 ml SingleDose,  
accessories  
REF 1592 4 g bottle, easy brushes, accessories  
REF 2245 Easy Brush – 50 pack  
REF 2315 mixing pallets – 20 pack

### Advantages

- Profluorid L's synthetic resin matrix ensures effective desensitizing during bleaching without interfering with the bleaching results. Your patients will feel immediate relief, which makes Profluorid L the product of choice for each bleaching session.
- Thin and clear for perfect esthetics
- Liquid consistency for easy and economical application
- Effective double protection of 5% sodium fluoride and calcium deposits. The sodium fluoride works immediately while the calcium deposits store and release fluoride over time. The perfect formula for immediate and long-term results.
- Free of glutaraldehyde, gluten or methacrylates
- CDT Insurance Code 9910 can be used as an application for desensitizing medicament<sup>1</sup>

### Application of Profluorid L

*Bottle*



*SingleDose*





## Bifluorid 10®

Double Fluoride liquid varnish for the treatment of dentinal hypersensitivity



Not available  
in the USA!



### Indications

Treatment of hypersensitive teeth  
Sealing of the dentinal tubules for cavity preparations or on sensitive root surfaces  
Cavity liner under amalgam restorations  
Desensitizer before and after bleaching

### Advantages

- Bifluorid 10's synthetic resin matrix ensures effective desensitizing during bleaching without interfering with the bleaching results.
- Thin and clear for perfect esthetics
- Liquid consistency for easy and economical application
- Effective double protection of 5% sodium fluoride and 5% calcium fluoride. The sodium fluoride works immediately while the calcium fluoride stores and releases fluoride over time.
- Superior immediate and long-term results.
- Free of glutaraldehyde, colophony, gluten or methacrylates

### Presentation

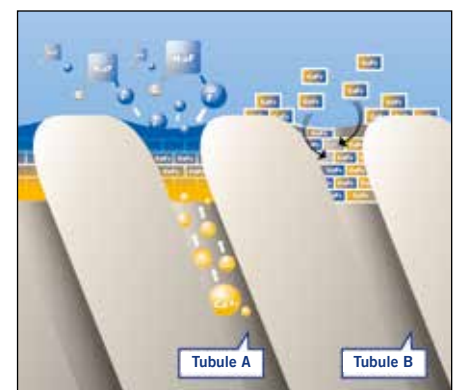
REF 1615 4 g bottle  
REF 1616 10 g bottle  
REF 1617 Pack 3 x 10 g bottle  
REF 1618 Pack 50 x 0.4 ml SingleDose, accessories  
REF 1619 Pack 200 x 0.4 ml SingleDose, accessories  
REF 1032 10 ml Solvent bottle<sup>1</sup>



### Fluoridation with Bifluorid 10 after a professional cleaning



### Mode of action of the sodium and calcium fluoride contained in Bifluorid 10



Tubule A:

Formation of calcium fluoride by the reaction of the sodium fluoride contained in Bifluorid 10 with calcium ions contained in the saliva and dentinal tubuli liquid

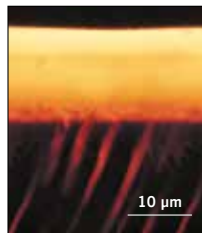
Tubule B:

Storage of the calcium fluoride contained in Bifluorid 10 in the tooth substance and tubuli

<sup>1</sup> For use with Bifluorid 10

## Admira Protect

Light-cured, Nano-filled desensitizer



Homogeneous covering of dentin with Admira Protect. The bright areas indicate infiltration into the tubules. Admira Protect CLSM study (PD Dr. T. Pioch), Confocal laser scanning micro-photography (CLSM) of Admira Protect on unetched dentin.<sup>2</sup>



### Indications

Treatment of hypersensitive dentin

Treatment of cervical areas (including crown margins, after tooth cleaning or tartar removal, exposed cervical areas etc.)



### Advantages

- No hypersensitivity for up to two years
- Biocompatible ORMOCER® matrix – no glutaraldehyde
- Significant reduction of stimulus transfer through intensive deep sealing of exposed root dentin
- High wear resistance through special Nano-filler technology
- High bond strength
- CDT Insurance Code 9911 can be used as an application of desensitizing resin for cervical/root surface, per tooth<sup>1</sup>

### Presentation

REF 1650 4.5 ml bottle  
REF 2247 Single Tim – 100 pack  
REF 2315 mixing pallets – 20 pack

## Grandio Seal

Highly filled Nano-hybrid pit and fissure sealant



### Indications

Seals/fills pits and fissures

Seals damaged enamel surfaces

Covers caries-prone areas during orthodontic treatments

Seals deciduous teeth



### Advantages

- 70% filled by weight for excellent wear resistance
- Low shrinkage
- Superb flow and wetting properties
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) Syringes and ultra-fine intraoral tips
- Drip-free, bubble-free placement
- Excellent penetration of the deepest pits and fissures
- One radiopaque shade for optimum visibility
- CDT Insurance Code 1351 can be used as a per tooth sealant to prevent decay<sup>2</sup>

### Presentation

REF 1060 Kit 5 × 2 g syringes with intraoral tips type 45, 5 ml Vococid  
REF 1061 Refill 2 × 2 g syringes, intraoral tips type 45  
REF 2147 intraoral tips type 45 – 100 pack

### Technical Data

Filler content	70.2% by weight
Adhesion to enamel (after 24 hours of storage in water)	16.9 MPa
Transverse strength	130 MPa
Transverse strength after thermocycling	107 MPa
Wear (ACTA)	41.7 µm

# DIRECT RESTORATION

## Liner/Etchant

Calcicur	12
Calcimol	13
Calcimol LC	13
Ionoseal	14
Vococid	14

## Total-Etch Adhesive

Admira Bond	15
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## Self-Etch Adhesive

Futurabond DC	16
Futurabond M+	16
Futurabond U	17

## Nano-Hybrid Composite

GrandioSO	18
GrandioSO x-tra	19
GrandioSO Light Flow	20
GrandioSO Flow	21
GrandioSO Heavy Flow	22
Grandio	23
Amaris	24
Amaris Gingiva	25

## NANO-ORMOCER®

Admira Fusion	26
Admira Fusion Flow	27
Admira Fusion x-tra	28
Admira Fusion x-base	29

## Bulk-fill Composite

x-tra base	30
x-tra fil	31

## Thermo-viscous Composite

VisCalor bulk	32
VOCO caps warmer	32

## VisCalor Dispenser/ Pediatric Restorative

VisCalor Dispenser	33
Twinky Star	33

## Curing Light

Celalux 3	34
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## Reinforcement Strands

GrandTEC	35
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## Glass Ionomer Restorative

Ionolux	36
IonoStar Plus	37
IonoStar Molar	38
GIC Mixer	38

## Glaze

Final Varnish LC	39
Easy Glaze	39



## Calcicur®

Ready-to-use calcium  
hydroxide paste



### Indications

Indirect capping for the treatment of caries profunda

Direct capping when the pulp is opened or a pulpotomy is performed

Lining of cavities to prevent exposure to acid media when using cements

For temporary filling of root canals

### Presentation

REF 1093 2.5 g syringe, intraoral tips type 47

REF 2131 intraoral tips type 47 - 30 pack

### Advantages

- Suitable for use under any lining or restorative material
- Immediately ready for use
- With high pH (12.5) known for antimicrobial effect
- Calcium hydroxide content of 45%
- Radiopaque
- Promotes the formation of tertiary dentin
- Effective pulp protection





## Calcimol

Self-cured paste-to-paste  
calcium hydroxide



Not available  
in Canada!



### Indications

Indirect pulp capping  
Lining under all filling materials



### Advantages

- Effective protection of the pulp
- Easy application
- Suitable working time
- Short setting time
- Contains 26% calcium hydroxide
- Radiopaque
- Supports the formation of tertiary dentin

### Presentation

REF 1097 Set 1 x 13 g base, 1 x 11 g catalyst

## Calcimol LC

Light-cured, resin modified  
calcium ion releasing base liner



### Indications

Indirect pulp capping  
Lining under all filling materials



### Advantages

- Calcium ion release promotes hydroxyapatite and tertiary dentin growth
- Has a high pH level (9.5–11) which is considered to have an antimicrobial effect
- Flow on demand – stays where you apply it
- Non-Dripping Technology (NDT<sup>®1</sup>) syringe for easy placement without waste
- Virtually eliminates sensitivities by creating a sealed barrier to the pulp
- Suited for pulp capping\* and as a base liner under all restorative materials and cements
- High compressive strength for a solid foundation
- Radiopaque for easy X-ray identification
- Acid resistant

### Presentation

REF 1307 Pack 2 x 2.5 g syringes,  
intraoral tips type 41

REF 2146 intraoral tips type 41 – 100 pack

### Calcimol LC in the NDT<sup>®1</sup> syringe

- NDT<sup>®1</sup> means Non-Dripping Technology
- Especially for fine-flowing materials
- Can be dosed and applied precisely
- No loss or waste of material

## Ionoseal

One component light-cured  
resin modified glass ionomer liner



### Indications

Lining under all types of filling material  
Extended fissure sealing  
Restoration of small lesions



### Advantages

- Saves time: Ready-to-use one component material
- Fast 20 sec. light-cure (2 mm)
- High compressive strength (226 MPa)
- Acid resistant allows for total-etch bonding technique
- Patented NDT<sup>®1</sup> Syringe saves material
- High fluoride release protects against secondary caries
- High biocompatibility
- Radiopaque

### Presentation

REF 1326 Pack 3 × 2.5 g syringes, intraoral tips type 41  
REF 2146 intraoral tips type 41 - 100 pack

## Vococid

Phosphoric etchant gel



### Indications

Etching of enamel and dentin in the etch-bond technique

### Advantages

- Non-dripping gel consistency
- 35% orthophosphoric acid
- Blue color for visual control

### Presentation

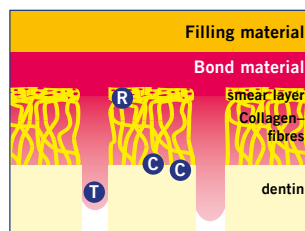
REF 1063 Pack 1 × 5 ml syringe, accessories  
REF 1224 Pack 5 × 2 ml syringes, accessories  
REF 2310 intraoral tips type 42 - 30 pack  
REF 2132 intraoral tips type 48 - 50 pack

## Admira Bond

Light-cured total-etch, one coat,  
one bottle adhesive



Not available  
in Canada!



### Indications

Direct restoration with all types of light-cured restoratives (ORMOCER®s, composites, compomers)



### Advantages

- Acetone-based for better water displacement; deeper tubule infiltration and reduced sensitivity
- Unique combination of micro mechanical and chemical bonding for superior high bond strength to dentin and enamel
- Elasticity during peak stress ensures long-lasting marginal seal
- Low uniform film thickness
- More than 15-year proven record of success
- Easy dispensing one-drop bottles

### Presentation

REF 2479 4 ml bottle  
REF 2432 Pack 2 × 4 ml bottles  
REF 2315 mixing pallets – 20 pack

**CTR adhesion describes the adhesion mechanisms of VOCO dentin and enamel bonding agents**

**CTR stands for:**

**C** = chemical bond through complex formation to dentinal calcium

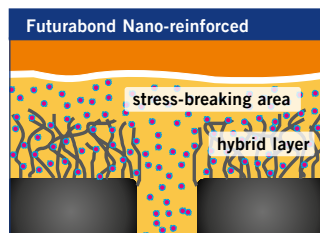
**C** = a second chemical adhesion mechanism through a special monomer to chemically bound phosphate

**T** = development of tags in the tubuli

**R** = retentive adhesion to free collagen fibers

## Futurabond DC

Self-etch, dual-cured adhesive for all light-, dual- and self-cured resin materials



### Indications

Dual-cured, self-etch adhesive for direct and indirect restorations with self-, light- and dual-cured resin materials



### Advantages

- Over 30 MPa adhesion to dentin and enamel with LC composites and strong bond strength with DC and SC composites
- Virtually no post-operative sensitivities
- Can be used without light – great for endo
- Reinforced with nano particles: increased bonding values, increased marginal integrity
- Fast and easy one-coat application (apply, dry, cure in 35 sec.)
- Moisture tolerant
- No refrigeration or shaking necessary
- Contains fluoride

### Presentation

REF 1164 Pack 50 × 0.1 ml SingleDose, accessories  
 REF 1165 Pack 200 × 0.1 ml SingleDose, accessories  
 REF 1163 Pack 4 ml liquid 1, 4 ml liquid 2, accessories  
 REF 2246 Endo Tim (for use in root canal) – 50 pack  
 REF 2247 Single Tim – 100 pack  
 REF 2315 mixing pallets – 20 pack

### Technical Data

Micro-tensile bond strength to dentin	39.3 MPa	University of Tanta
Shear bond strength to dentin	30.2 MPa	analogous Reinhardt*
Shear bond strength to enamel	36.1 MPa	analogous Reinhardt*

\* Reinhardt KJ, Phillip Journal 3-4, 1997, 101-104.

## Futurabond M+

Universal adhesive in a bottle delivery system

### Indications

Direct and indirect restorations using any light-cured methacrylate-based restorative, core build-up or composite

Intraoral repair of fillings, ceramic veneers and all-ceramic restorations without an additional primer

Treatment of hypersensitive tooth necks

Protective varnish for glass ionomer cement restorations

Sealing of cavities prior to amalgam restorations or prior to temporary cementation

### Advantages

A flexible and reliable solution for every bonding situation

- Can be applied with or without phosphoric acid etchant
- Suitable for direct and indirect restorations
- Secure adhesion to various materials such as metals, zirconium or aluminum oxide, as well as silicate ceramics, without additional primer
- Applied in one layer – only 35 seconds total working time

### Presentation

REF 1515 5 ml bottle, accessories  
 REF 1516 Pack 3 × 5 ml bottles  
 REF 1518 Dual Cure Activator (DCA) bottle 2 ml  
 REF 2247 Single Tim – 100 pack  
 REF 2315 mixing pallets – 20 pack



### In combination with Futurabond M+ DCA (Dual Cure Activator):

Direct and indirect restorations using any self-cured or dual-cured methacrylate-based restorative, core build-up or luting composite

Cementation of root posts with dual-curing or self-curing composites



## Futurabond U

### Dual-cured Universal adhesive



#### Indications

Direct and indirect restorations using any light-cured, self-cured or dual-cured methacrylate-based restorative, core build-up or composite

Intraoral repair of fillings, ceramic veneers and all-ceramic restorations without additional primer

Treatment of hypersensitive tooth necks

Protective varnish for glass ionomer cement restorations

Sealing of cavities prior to amalgam restorations or prior to temporary cementation

Cementation of root posts with dual-curing or self-curing composites

#### Advantages

- One adhesive for all your adhesive dentistry
  - self-etch, selective-etch or total-etch
  - for all direct or indirect materials without any extra activator
  - bonds to all light-, dual- and self-cured resin materials
  - bonds to metal, zirconia, aluminum oxide, silicate ceramic without any extra primer
- VOCO's patented SingleDose System eliminates the solvent evaporation problem that exists with bottle systems, ensuring reliable and consistent bond strengths with each use
- Fast and easy one-coat application (apply, dry and cure in 35 sec.)
- Virtually no post-operative sensitivity
- Over 30 MPa adhesion to dentin and enamel with LC composites and strong bond strength with DC and SC composites
- Reinforced with nano particles for permanent bond strength

#### Presentation

REF 1571	Pack 50 × 0.1 ml SingleDose, accessories
REF 1572	Pack 200 × 0.1 ml SingleDose, accessories
REF 2246	Endo Tim (for use in root canal) – 50 pack
REF 2247	Single Tim – 100 pack

#### Self-etch



#### Selective-etch



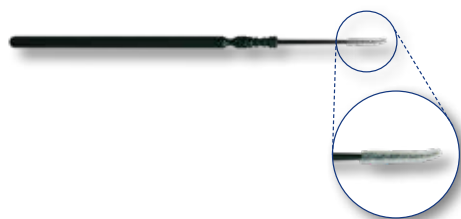
#### Total-etch



## Endo Tim

#### Indications

Brushes for applying bonding agents and varnishes into the root canal



**MORE THAN 10 YEARS OF PROVEN  
PERFORMANCE, ESTHETICS AND LONGEVITY  
BUILT ON TOOTHLIKE PHYSICAL PROPERTIES**



## GrandioSO

**Universal light-cured 89% filled Nano-hybrid composite  
for anterior and posterior fillings of all classes**



### Indications

Class I–V restorations  
Reconstruction of traumatically damaged anteriors  
Facetting of discolored anteriors  
Correction of shape and shade for improved esthetic appearance  
Locking, splinting of loosened teeth  
Repairing veneers  
Restoration of deciduous teeth  
Core build-up under crowns  
Composite inlays

### Advantages

- **89% fillers by weight**
  - outstanding wear resistance
  - enhanced color stability
- **30–50% less resin compared to classic hybrid and pseudo-nano composites**
  - low shrinkage of only 1.6% (by volume)
  - non-sticky
  - prolonged working time under ambient light
- **Designer Nano particles**
  - excellent polishability and polish retention
  - tooth-like modulus of elasticity
  - tooth-like thermal expansion and flexural strength
  - VOCO's individual cross-contamination prevention packaging for capsules
- **SingleDose blister pack for consistent quality and prevention of cross-contamination**



### Presentation

REF 2640 Caps Kit, 80 × 0.25 g caps (A1, A2, A3, GA3.25, B1) shade guide

REF 2600 Syringe Kit, 5 × 4 g syringes (A1, A2, A3, GA3.25, B1) shade guide

REF 9301 Caps Dispenser

**Refills (1 × 4 g syringe/16 × 0.25 g caps), each:**

Shade	1 × 4 g syringe	16 × 0.25 g caps
A1	REF 2610	REF 2650
A2	REF 2611	REF 2651
A3	REF 2612	REF 2652
A3.5	REF 2614	REF 2654
A4	REF 2615	REF 2655
B1	REF 2619	REF 2659
B2	REF 2620	REF 2660
B3	REF 2621	REF 2661
C2	REF 2624	REF 2664
D3	REF 2627	REF 2667
I (Incisal)	REF 2629	REF 2669
Opaque OA1	REF 2630	REF 2670
Opaque OA2	REF 2631	REF 2671
Opaque OA3.5	REF 2633	REF 2673
BL (Bleach)	REF 2635	REF 2675
GA3.25	REF 2613	REF 2653
GA5	REF 2616	REF 2656
Grandio®SO shade guide		REF 2607

### Technical Data

Filler Content:	89% by weight 73% by volume	DIN 51081
Shrinkage:	1.61% (by volume)	analogous Watts et al.
Modulus of Elasticity	16,650 MPa	ISO 4049
Depth of Cure	>2.8 mm/20 s	ISO 4049
Radiopacity	320 %AI	ISO 4049
Surface Hardness (Micro-Vickers hardness)	211 MHV	University of Rostock, Germany
Resistance to Ambient Light	4 minutes and 30 seconds	ISO 4049
Gloss	84 GU	DIN 67530
Wear Rate	18 µm	3 body wear (ACTA 200,000)



## GrandioSO x-tra

Esthetic Nano-hybrid bulk-fill composite



### Indications

Class I and II posterior restorations

Base in Class I and II cavities

Class V restorations

Locking, splinting of loose teeth

Repairing veneers, enamel defects and temporary C&B materials

Extended fissure sealing

Restoration of deciduous teeth

Core build-up

### Advantages

- Quick and esthetic posterior restorations
- Higher level of hardness than other bulk-fill composites – on the surface, as well as at 4 mm depth of cure
- High filler content (86% by weight) and extremely low polymerization shrinkage (1.4% by volume)
- High shade stability
- Excellent handling and simple high-luster polishing procedure
- In shades A1, A2, A3 and Universal



### Presentation

REF 9301 Caps Dispenser

Shade	16 x 0.25 g caps
Universal	REF 2714
A1	REF 2715
A2	REF 2716
A3	REF 2717

### Technical Data

Filler Content	89% by weight 73% by volume	DIN 51081
Shrinkage	1.4 Vol. %	analogous Watts
Shrinkage stress	5.16 MPa	analogous Watts
Flexural strength	186 MPa	ISO 4049
Flexural strength after thermo-cycling	180 MPa	ISO 4049
Modulus of elasticity	14.034 MPa	ISO 4049
Compressive strength	334 MPa	analogous ISO 9917
Radiopacity	423 %AI	ISO 4049
Water uptake	10.35 µg/mm <sup>3</sup>	ISO 4049
Solubility in water	≤ 0.1 µg/mm <sup>3</sup>	ISO 4049
Surface hardness (Micro-Vickers)	222.67 MHV	University of Zagreb
ACTO-wear rate	44 µm	analogous ISO 9917
Curing depth (10 s)	4.67 mm	ISO 4049

## GrandioSO Light Flow

Extremely flowable, yet highly stable Nano-hybrid composite with an ultra-fine intraoral tip for precise applications



### Indications

Filling/characterization of small cavities  
Filling/characterization of Class III, IV and V cavities  
Extended fissure sealing  
Blocking out undercuts  
Lining or coating cavities  
Repairing fillings, veneers and temporary restorations  
Cementing translucent prosthetic pieces

### Advantages

- Low viscosity – allows for outstanding flow properties for maximum accessibility of hard-to-reach areas and small cavities
- Ultra-fine intraoral tip – for precise and pinpoint application and dosage without excess residues for material savings
- High performance – superior physical properties due to 76% (by weight) nano-hybrid fill rate.
- High esthetics – 8 shades that blend well due to designer nano-particulate
- Excellent handling – NDT<sup>®</sup>1-syringe (non-drip technology), compatible with all light-curing adhesives

Ultra-fine  
intraoral tip



### Presentation

REF 2144 Intraoral tips type 44–100 pack  
REF 2147 Application cannulae type 45–100 pack  
**GrandioSO Light Flow (1 × 4 g syringe), each:**

Shade	1 × 4 g syringe
A1	REF 2586
A2	REF 2587
A3	REF 2588
A3.5	REF 2589
B1	REF 2590
WO	REF 2591
Opaque OA2	REF 2592
I (Incisal)	REF 2593

### Technical Data

Filler content	76.0% w/w	DIN 51081
Polymerization shrinkage	3.82 Vol.-%	analogous Watts
Modulus of elasticity	8.7 GPa	ISO 4049
3-point flexural strength	151 MPa	ISO 4049
Wear rate (200.000 cycles)	49 µm	ACTA 3 body
Thermocycling	117 MPa	ISO 4049
Compressive strength	374 MPa	analogous ISO 9917
Radiopacity	230 %Al	ISO 4049
Curing depth (800 mW/cm <sup>2</sup> )	≥ 2.20 mm/20 s	ISO 4049
Water absorption	11 µg/mm <sup>3</sup>	ISO 4049
Water solubility	< 0.1 µg/mm <sup>3</sup>	ISO 4049
Surface hardness	121 MHV	University of Rostock



### Treatment of an anterior tooth defect with GrandioSO Light Flow



Initial situation: Enamel fracture on tooth 8



Pre-treatment of enamel fracture



Filling of defect with ultra-fine intraoral tip and GrandioSO Light Flow without excess residues



Final result after finishing

Source: Dr. Walter Denner, Fulda / Germany





## GrandioSO Flow

Medium-viscous, light-cured, universal flowable 81% filled Nano-hybrid composite



### Indications

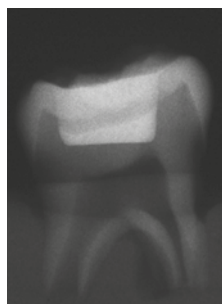
Restoration of minimally invasive cavities of all classes  
 Restorations of small Class I cavities and extended fissure sealing  
 Restoration of Class II – V cavities including V-shaped defects and cervical caries  
 Blocking out of undercuts  
 Lining or coating of cavities  
 Repair of fillings, veneers and temporary crowns & bridges  
 Cementation of attachment of translucent prostheses  
 (e.g. all-ceramic crowns etc.)

### Advantages

- Outstanding physical properties through 81% filler content
  - strong enough for occlusal surfaces of Class I + II restorations
  - wear resistance of a hybrid
  - excellent color retention
- Excellent wettability
- Thixotropic material that will “flow on demand” without slumping
- Precise application with long bendable tip
- Natural esthetics and exact shade matching with GrandioSO
- Radiopaque
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) syringes



For easy diagnostics use White Opaque (WO) with a radiopacity of 500 %Al



GrandioSO Flow's WO shade's extreme radiopacity of 500 %Al provides an incredibly sharp contrast to the dental hard tissue and other restorative materials, making it extremely useful for the further physical treatment of a filling. When used as a cavity liner, it clearly marks the proximity of the pulp. It is highly useful for masking discolored areas, and the WO shade can be used for color effects in the creation of highly esthetic restorations.

### Presentation

REF 2720 Syringe Kit, 5 × 2 g syringes (A1, A2, A3, A3.5, WO)

REF 2146 Intraoral tips type 41 – 100 pack

REF 9301 Caps Dispenser

Refills (2 × 2 g syringes/16 × 0.25 g caps), each:

Shade	2 × 2 g syringes, intraoral tips type 41	16 × 0.25 g caps
A1	REF 2722	REF 2742
A2	REF 2723	REF 2743
A3	REF 2724	REF 2744
A3.5	REF 2725	REF 2745
A4	REF 2726	REF 2746
B1	REF 2729	REF 2749
B2	REF 2730	
C2	REF 2732	
I (Incisal)	REF 2733	
Opaque OA2	REF 2734	
BL (Bleach)	REF 2736	
WO (White Opaque)	REF 2737	
GA5	REF 2727	
Grandio®SO shade guide		REF 2607*

\*Only Above Shades are Available

### Technical Data

Filler content	81% (by weight)	65% (by volume)
Shrinkage	3.19% (by volume)	analogous Watts et al.
Modulus of Elasticity	10,580 MPa	ISO 4049
Depth of cure	>2.51 mm/20 sec.	ISO 4049
Radiopacity	250 %Al	ISO 4049
Radiopacity WO	500 %Al	ISO 4049
Wear rate:	48 µm	(ACTA method: 200,000 cycles)
Flexural strength	159 MPa	ISO 4049

## GrandioSO Heavy Flow

Highly viscous, light-cured, universal flowable  
83% filled Nano-hybrid composite



### Indications

Restoration of minimally invasive cavities of all classes  
Restoration of small Class I cavities and for extended fissure sealing  
Restoration of Class II – V cavities including wedge-shaped defects and cervical caries  
Blocking out of undercuts  
Lining or coating of cavities  
Repair of restorations and veneers  
Cementing of attachment of translucent prostheses (e.g. all-ceramic crowns etc.)

### Advantages

- Outstanding physical properties through 83% filler content
  - Strong enough for occlusal surfaces of Class I + II restorations
  - Wear resistance of a hybrid
  - Excellent color retention
- No undesirable runoff; increased stability in comparison to conventional flowables
- Simplified filling of undercuts, approximal boxes and paragingival areas
- Ideal for proximal and cervical areas
- Ideal for use with the GrandTEC glass fiber system
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) syringes



### Presentation

REF 2680 Syringe Kit 5 × 2 g (A1, A2, A3, A3.5, WO), shade guide, accessories

REF 2148 Intraoral tips type 46 – 100 pack

REF 9301 Caps Dispenser

**Refills (2 × 2 g syringes/16 × 0.25 g caps), each:**

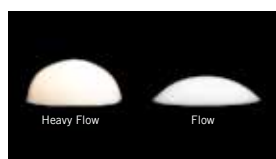
Shade	2 × 2 g syringes	16 × 0.25 g caps
A1	REF 2684	REF 2704
A2	REF 2685	REF 2705
A3	REF 2686	REF 2706
A3.5	REF 2687	REF 2707
A4	REF 2688	REF 2708
B1	REF 2690	REF 2712
B2	REF 2691	
C2	REF 2692	
Opaque OA2	REF 2693	
I (Incisal)	REF 2694	
BL (Bleach)	REF 2695	
WO (White Opaque)	REF 2696	
GA5	REF 2689	
Grandio <sup>®</sup> SO shade guide		REF 2607*

\*Only Above Shades are Available

### Technical Data

Filler Content	83% (by weight)	68% (by volume)
Shrinkage	2.96% (by volume)	analogous, Watts, et al.
Flexural Modulus	11,850 MPa	ISO 4049
Depth of Cure	>2.5 mm/20 sec.	ISO 4049
Radiopacity	260 %AI	ISO 4049
Compressive Strength:	417 MPa	ISO 9917
Wear Rate	40 µm	3 body wear (ACTA 200,000)
Flexural Strength	159 MPa	ISO 4049

### The visible difference



Stability comparison on a horizontal plane



Flowability comparison on a vertical plane

# Grandio

Universal light-cured 87% filled Nano-hybrid composite for anterior and posterior fillings of all classes

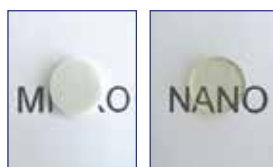
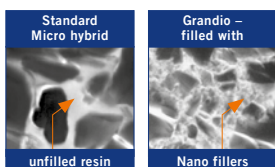
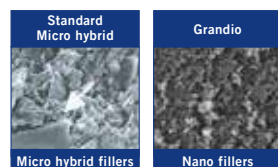


## Indications

Class I to V fillings  
Reconstruction of traumatically affected anteriors  
Facetting of discolored anteriors  
Correction of shape and shade to improve esthetic appearance  
Locking, splinting of loose anteriors  
Repair of veneers  
Core build-up under crowns  
Especially suitable for composite inlays

## Advantages

- **87% fillers by weight**
  - outstanding wear resistance
  - enhanced color stability
  - terrific handling characteristics (great sculptability, non-sticky consistency, no slumping)
- **30-50% less resin compared to standard micro hybrids**
  - low shrinkage of only 1.57% (by volume)\*
  - excellent polishability
  - improved translucency
  - very high biocompatibility
  - VOCO's individual cross-contamination prevention packaging for capsules
- **SingleDose blister pack for consistent quality and prevention of cross-contamination**



## Presentation

REF 1800 Syringe Kit, 5 × 4 g syringes  
(A1, A2, A3, A3.5, B2), shade guide

REF 1830 Caps Kit, 50 × 0.25 g Caps  
(A1, A2, A3, A3.5, B2), shade guide

REF 9301 Caps Dispenser

**Refills (1 × 4 g syringe/20 × 0.25 g caps), each:**

Shade	1 × 4 g syringe	20 × 0.25 g caps
A1	REF 1810	REF 1840
A2	REF 1811	REF 1841
A3	REF 1812	REF 1842
A3.5	REF 1813	REF 1843
A4	REF 1814	REF 1844
B1	REF 1824	REF 1854
B2	REF 1815	REF 1845
B3	REF 1816	REF 1846
C2	REF 1817	REF 1847
C3	REF 1818	REF 1848
D2	REF 1825	REF 1855
D3	REF 1819	REF 1849
I (Incisal)	REF 1820	
Opaque OA2	REF 1821	REF 1851
Opaque OA3.5	REF 1822	REF 1852
BL (Bleach)	REF 1823	REF 1853
Grandio shade guide		REF 1899

## Technical Data

Filler content	87% by weight 71.4% by vol.	DIN 13922
Shrinkage	1.57% by vol.	University of Manchester, GB
Surface hardness (Micro Vickers-hardness)	285 MHV	University of Rostock, Germany
Wear rate	18 µm	3 body wear (ACTA 200,000)
Depth of cure	3 mm/20 sec.	ISO 4049
Radiopacity	250 %AI	ISO 4049

## Amaris

Nano-reinforced simplified shade composite



### Indications

- Esthetic restoration of Class III, IV and V cavities in anteriors
- Esthetic restoration of Class I, III and V cavities in posteriors
- Reconstruction of traumatically damaged anteriors
- Direct and indirect composite veneers, facing of discolored anteriors
- Correction of shade and shape for improved esthetics
- Repair of highly esthetic ceramic restorations
- Splinting, interlocking of teeth

### Advantages

- Restore teeth across entire VITA shade range with 5 basic opaque shades and 3 translucent modifier shades
- Reduce inventory
- Easy to polish for high luster gloss anterior
- Nano-reinforced pre-polymerized ISO fillers for low shrinkage and excellent wear for posterior
- Non-sticky consistency makes shaping easy
- Non-sensitive to ambient light guarantees at least 8 minutes working time
- Natural fluorescence and high color stability



Initial situation



Selecting of opaque shade



Applying opaque layer



Final esthetic restoration

Pictures are a courtesy of Joyce L. Bassett, DDS, Scottsdale, AZ

### Presentation

- REF 1930 Syringe Kit, 8 × 4 g syringes (O1, O2, O3, O4, O5, TL, TN, TD), 2 × 1.8 g syringes Amaris Flow (HT, HO), accessories
- REF 1949 Caps Starter Kit, 4 × 0.25 g caps (each O1, O2, O3, O4, O5), 2 × 1.8 g syringes Amaris Flow (HT, HO) accessories
- REF 2144 intraoral tips type 44 – 100 pack
- REF 9301 Caps Dispenser

**Refills (1 × 4 g syringe / 16 × 0.25 g caps), each:**

Shade	1 × 4 g syringe	16 × 0.25 g caps
O1	REF 1933	REF 1953
O2	REF 1934	REF 1954
O3	REF 1935	REF 1955
O4	REF 1936	REF 1956
O5	REF 1937	REF 1957
O Bleach	REF 1938	REF 1958
TL (Translucent Light)	REF 1940	REF 1960
TN (Translucent Neutral)	REF 1941	REF 1961
TD (Translucent Dark)	REF 1942	REF 1962

**Refills (2 × 1.8 g syringe):**

Shade	Syringe
HT (High Translucent)	REF 1945
HO (High Opaque)	REF 1946
Shade guide	REF 1669

### Technical Data

Filler content	80% (by weight)
Shrinkage	2.0% (by volume)
ACTA Wear Rate (200,000 cycles)	45 µm
Flexural Strength (ISO 4049)	120 MPa
Compressive Strength	375 MPa
Diametral Tensile Strength (DTS)	51 MPa
Radiopacity (ISO 4049)	210 %AI
Translucent shades (10 sec.)	> 2.5 mm
Opaque shades (40 sec.)	> 2.0 mm

## Amaris Gingiva

Light-cured, gingiva colored restorative system



### Indications

Class V restorations (cervical caries, root erosion, V-shaped defects) especially in cases of retreating gingiva, e.g. as a result of periodontal disease

Covering of exposed discolored hypersensitive tooth necks, especially in the visible anterior area

Highly esthetic correction of malpositions of teeth, for direct veneers, facings and corrections of the red-white esthetics

### Advantages

- One base shade, combined with three mixable opaques, can reproduce virtually all gingival shades
- Esthetic and functional solution for cavities and V-shaped defects in cervical areas exposed by gingival recession
- Latest composite technology – Amaris® know-how in gingival shades with high flexural strength and high wear resistance



### Presentation

REF 1970 Kit, 3 × 1.2 g opaque in the colors white, light and dark, 1 × 4 g basic color "nature", accessories

REF 1971 Refill, 1 × 4 g color "nature"

REF 2147 intraoral tips type 45 – 100 pack

### Technical Data

Filler content	80% (by weight)	DIN 51081
Shrinkage	2% (by volume)	University of Manchester
3-Point flexural strength	120 MPa	ISO 4049
Surface hardness (Micro-Vickers Hardness)	99 MHV	University of Rostock
Depth of cure (500 mW/cm <sup>2</sup> )	> 2 mm / 40 s	ISO 4049
Radiopacity	210 %AI	ISO 4049
Water solubility	<1 µg/mm <sup>3</sup>	ISO 4049
Water absorption	18.4 µg/mm <sup>3</sup>	ISO 4049

### Clinical application



Initial situation on teeth 6 and 7

Dr. Jan-Erik Schulz-Walz, Hamburg, Germany



Cervical restorations with Amaris Gingiva

# Admira Fusion®

Universal Nano-ORMOCER® restorative material



## Indications

Class I to V restorations  
 Base in Class I and II cavities  
 Reconstruction of traumatically damaged anteriors  
 Facetting of discolored anteriors  
 Correction of shape and shade for improved esthetic appearance  
 Locking, splinting of loose anteriors  
 Repairing veneers, small enamel defects and temporary C&B materials  
 Extended fissure sealing  
 Restoration of deciduous teeth  
 Core build-up  
 Composite inlays

## Advantages

- The world's first all ceramic-based direct universal restorative material
- Pure silicate technology: fillers and matrix are based purely on silicon oxide
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Nano-ORMOCER® technology reduces shrinkage and shrinkage stress by up to 50% compared to composites and leads to outstanding shade stability
- Non-sticky consistency for easy handling
- Perfect balance of translucency and opacity for natural looking restorations
- Easy to polish to a high shine luster
- High 84% fill rate for high wear resistance
- Compatible with all conventional bonding agents
- VOCO's individual cross-contamination prevention packaging for capsules
- SingleDose blister pack for consistent quality and prevention of cross-contamination



## Presentation

REF 2750 Syringe Kit, 5 × 3 g syringes (A1, A2, A3, A3.5, Admira Fusion x-tra), shade guide

REF 2780 Caps Kit, 75 × 0.2 g caps (15 each of A1, A2, A3, A3.5, Admira Fusion x-tra), shade guide

REF 9301 Caps Dispenser

**Refills (1 × 3 g syringe / 15 × 0.2 g caps), each:**

Shade	1 × 3 g syringe	15 × 0.2 g caps
A1	REF 2754	REF 2782
A2	REF 2755	REF 2783
A3	REF 2756	REF 2784
A3.5	REF 2758	REF 2786
A4	REF 2759	REF 2787
B1	REF 2762	REF 2790
B2	REF 2763	REF 2791
B3	REF 2764	REF 2792
C2	REF 2766	REF 2794
D3	REF 2768	REF 2796
Opaque OA1	REF 2770	REF 2798
Opaque OA2	REF 2771	REF 2799
Opaque OA3	REF 2772	REF 2800
Opaque OA3.5	REF 2773	REF 2801
BL (Bleach)	REF 2775	REF 2803
BXL (Bleach light)	REF 2777	REF 2805
I (Incisal)	REF 2776	REF 2804
Mixed*	n/a	REF 2806
GA3.25	REF 2757	REF 2785
GA5	REF 2760	REF 2788
Admira Fusion Shade Guide		REF 2752

## Technical Data

Shrinkage	1.25% (by volume)
Shrinkage stress	3.71 MPa analogous Watts et al.
Filler content	84% (by weight)
Depth of Cure	2.71 mm / 20 s
Radiopacity	305 %AI
Modulus of elasticity	9,800 MPa
Thermal expansion coefficient α	40.3 *10 <sup>-6</sup> / K
3-Point-flexural strength	132 MPa
Edge stability	171.9 N
Compressive strength	307 MPa analogous ISO 9917
Water uptake	13.4 µg / mm <sup>3</sup>
Water solubility	≤ 0.1 µg / mm <sup>3</sup>
Resistance to ambient light	198 s
Tensile bond strength on enamel (with Futurabond M+: Self-Etch mode)	30.04 MPa
Tensile bond strength on dentin (with Futurabond M+: Self-Etch mode)	23.82 MPa



## Admira Fusion® Flow

Flowable light-cured Nano-ORMOCER® direct restorative material



### Indications

- Filling of small cavities and extended fissure sealing
- Blocking out undercuts
- Lining or coating cavities
- Fillings of Class III-V cavities
- Repairing fillings, veneers and temporary restorations
- Luting translucent prosthetic pieces
- Locking/splinting of loose teeth

### Advantages

- The world's first all ceramic-based direct flowable restorative material
- Pure Silicate Technology: Fillers and matrix are based purely on silicon oxide
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Nano-ORMOCER® technology reduces shrinkage (2.75% by volume) and shrinkage stress to the level of universal composites
- Inert for outstanding shade stability
- High fill rate of 74% by weight for better wear
- Compatible with conventional adhesives
- Easy to polish to a high shine luster
- Excellent wettability
- Thixotropic material that will "flow on demand" without slumping
- Non-Dripping Technology syringe (NDT®<sup>1</sup>)
- Radiopaque (240 %AI)
- 12 shades for esthetic restorations – perfectly matching the shade range of the packable version, Admira Fusion

### Presentation

REF 2816 Syringe Kit 5 × 2 g syringes (A1, A2, A3, A3.5, WO), shade guide, accessories  
REF 2146 intraoral tips type 41 – 100 pack

Shade	2 × 2 g syringes
A1	REF 2818
A2	REF 2819
A3	REF 2820
A3.5	REF 2821
A4	REF 2822
B1	REF 2824
B2	REF 2825
C2	REF 2826
I (Incisal)	REF 2828
Opaque OA2	REF 2829
BL (Bleach)	REF 2831
WO (White Opaque)	REF 2832
Admira Fusion Shade Guide	REF 2752*

\*Only Above Shades are Available

### Technical Data

Shrinkage	2.75% (by volume) analogous
Shrinkage stress	7.27 MPa analogous
Filler content	74% (by weight)
Depth of Cure	2.66 mm / 20 s
Radiopacity	240 %AI
Modulus of elasticity	5,771 MPa
Compressive strength	281 MPa analogous
Water uptake	12 µg / mm <sup>3</sup>
Water solubility	< 0.1 µg / mm <sup>3</sup>
Resistance to ambient light	198 s
Water uptake	12 µg / mm <sup>3</sup>
Surface hardness (Micro-Vickers)	86 MHV
Diametrical tensile strength	66 MPa



## Admira Fusion® x-tra

Single-shade Omni-chromatic Nano-ORMOCER® Restorative



### Indications

Class I and II posterior restorations

Base in Class I and II cavities

Class V restorations

Locking, splinting of loose anteriors

Repairing veneers, small enamel defects and temporary

C&B materials

Extended fissure sealing

Restoration of deciduous teeth

Core build-up

### Presentation

REF 2810 Pack 3 g syringe – universal

REF 2811 Pack 15 × 0.2 g caps – universal

REF 9301 Caps Dispenser

### Technical Data

Shrinkage	1.25% (by volume) analogous Watts et al.
Shrinkage stress	3.87 MPa analogous Watts et al.
Filler content	84% (by weight)
Depth of Cure	4.05 mm / 20 s
Radiopacity	296 %AI
Modulus of elasticity	10,090 MPa
3-Point-flexural strength	136 MPa
Compressive strength	307 MPa analogous ISO 9917
Water uptake	13.4 µg / mm³
Water solubility	≤ 0.1 µg / mm³

### Advantages

- Only one omni-chromatic shade restores entire classic shade range: no guess work and no more wasted shades
- 4 mm depth of cure – saves time
- Easy to polish, highly stain resistant with a high gloss
- Exceptional longevity with low initial shrinkage of only 1.25% by volume
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Based on innovative Nano-ORMOCER® Technology with enhanced physical properties
- Compatible with all conventional bonding agents
- VOCO's individual cross-contamination prevention packaging for capsules
- SingleDose blister pack for consistent quality and prevention of cross-contamination



### Admira Fusion x-tra's single universal shade matches:

	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	OM3*
Before Light Cure																	
Final Result																	

Source: Internal VOCO data 2019

## Admira Fusion® x-base

Nano-ORMOCER® flowable base restorative material



### Indications

Base restorative in Class I and II fillings  
 As a base/liner for Class I and II fillings  
 Small, non occlusion-bearing Class I fillings  
 Class III and V fillings  
 Extended fissure sealing  
 Blockout of undercuts  
 Repair of small enamel defects  
 Repair small defects in esthetic indirect restorations  
 Repair of provisional C&B materials  
 Core build-up

### Advantages

- All ceramic-based nano-ORMOCER® Technology
- 4 mm depth of cure for ease and speed
- High fill rate of 72% by weight for better wear
- Extremely low polymerization shrinkage of 2.5% by volume
- Particularly low shrinkage stress with optimal marginal integrity
- Highly biocompatible and extremely color-stable
- Ideal flowability for excellent adaptation
- Outstanding handling, even in difficult-to-access areas
- Available in the patented Non-Dripping Technology (NDT®<sup>1</sup>) syringe
- Compatible with all conventional adhesives
- Compatible with all conventional resin-based and ORMOCER®-based restorative materials

### Presentation

REF 2812 Pack 2 × 2 g syringes, accessories  
 REF 2148 intraoral tips type 46 – 100 pack

### Technical Data

Shrinkage	2.5% (by vol.) analogous Watts et al.
Filler content	72.0% (by weight)
Depth of Cure	4.49 mm/20 s
Radiopacity	250 %AI
Modulus of elasticity	5,698 MPa
3-Point flexural strength	104 MPa
Compressive strength	256 MPa analogous ISO 9917
Water absorption	16.36 µg/mm <sup>3</sup>
Water solubility	<0.1 µg/mm <sup>3</sup>
Thermal expansion coefficient	54.7·10 <sup>-6</sup> ·K <sup>-1</sup>



## x-tra base®

### Fast bulk-fill flowable posterior composite



#### Indications

Base for Class I and II cavities

Cavity liner under direct restorative materials in Class I and II cavities

Small, non-occlusal stress-bearing Class I restorations according to minimally invasive filling therapy

Class III and V restorations

Extended fissure sealing

Undercut blackout

Repair of small enamel defects

Repair of small defects in esthetic indirect restorations

Repair of temporary C&B materials

Core build-up

#### Presentation

REF 1790 Pack 2 × 2 g syringe, shade Universal  
 REF 1791 Pack 2 × 2 g syringe, shade A2  
 REF 1794 Pack 16 × 0.25 g caps, shade Universal  
 REF 1795 Pack 16 × 0.25 g caps, shade A2  
 REF 2148 intraoral tips type 46 – 100 pack  
 REF 9301 Caps Dispenser

#### Technical Data

Filler Content	75% by weight
Shrinkage Stress	5.93 MPa
Shrinkage	2.54% (by volume)
Radiopacity	350 %AI
Surface Hardness	100 MHV
Wear (ACTA)	46.1 µm
Flexural Strength after TC	141 MPa

#### Advantages

- 4 mm depth of cure in 10 sec saves time\*
- Low shrinkage stress allows bulk-fill speed
- High strength makes it suitable for open and closed sandwich technique
- Smart self-leveling properties for excellent wall adaptation without slumping out of maxillary restorations
- High radiopacity (350 %AI) for easy X-ray identification
- Available in patented NDT®<sup>1</sup> (Non-Dripping Technology) syringes or unit dose caps with extra long bendable needle tip
- Available in shades A2 and Universal



## x-tra fil®

Fast bulk-fill packable posterior composite



### Indications

Class I and II restorations

Core build-up

### Presentation

REF 1740 Pack 1 × 5 g syringe, shade universal  
REF 1741 Pack 20 × 0.25 g caps, shade universal  
REF 9301 1 Caps Dispenser

### Advantages

- **x-tra fast**
  - 4 mm cure in 10 sec
  - Use with Futurabond NR/DC/U SingleDose to bond, fill and cure 4 mm in less than 60 sec.
- **x-tra durable**
  - low shrinkage of 1.7% by volume through multi-hybrid filler technology
  - 86% filled by weight for great wear resistance
- **x-tra easy**
  - one universal shade fits all. High translucency provides excellent chameleon effect for good esthetics
  - highly radiopaque (330 %AI)
  - perfect for fast core build-ups
- **x-tra safe**
  - VOCO's individual cross-contamination prevention packaging for capsules
- **SingleDose blister pack for consistent quality and prevention of cross-contamination**

### Technical Data

Filler Content	86% by weight
Shrinkage	1.7% (by volume)
Radiopacity	330 %AI
Surface Hardness	142 MHV
Wear (ACTA)	43 µm
Flexural Strength	145 MPa



### Clinical Case



Source: Dr. Ulrich Sachse, Kiel



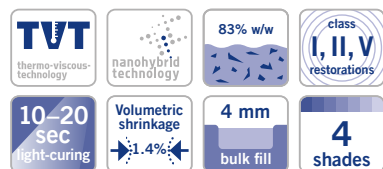
## VisCalor® bulk

### Thermo-viscous bulk-fill composite



#### Indications

Class I and II posterior restorations  
Base in Class I and II cavities  
Class V restorations  
Locking, splinting of loose teeth  
Repairing veneers, enamel defects and temporary C&B-materials  
Extended fissure sealing  
Restoration of deciduous teeth  
Core build-up



#### Advantages

- Thermo-viscous: Initially flowable for optimal adaptability, then immediately sculptable. This 2-in-1 material approach (flowable and packable) saves time
- Bulk-fill with 4mm depth of cure speeds up the procedure
- Easy-Access-Capsule with long and narrow tip for hard-to-reach areas and bubble-free application
- VOCO's new TVT polymer technology for:
  - fast viscosity change
  - the ability to flow
  - low shrinkage and excellent wear
- Monoblock concept: one highly-filled material from bottom to top
- Safe to use. VisCalor bulk's temperature increase during application and polymerization stays within the normal range of pulpal physiology\*

#### Presentation

REF 6063 Kit VisCalor bulk + VOCO Caps Warmer, 80 × 0.25 g Caps (16 × universal, 16 × A1, 32 × A2, 16 × A3)  
REF 6062 Kit VisCalor bulk + VisCalor Dispenser, 80 × 0.25 g caps (16 × universal, 16 × A1, 32 × A2, 16 × A3)  
REF 6065 Caps 16 × 0.25 g universal  
REF 6066 Caps 16 × 0.25 g A1  
REF 6067 Caps 16 × 0.25 g A2  
REF 6068 Caps 16 × 0.25 g A3  
REF 9301 Caps Dispenser

#### Technical Data

Shrinkage	1.44% (by volume)	analogous Watts
Shrinkage stress	4.6 MPa	analogous Watts
Filler content	83% (by weight)	DIN 51081
Radiopacity	310 %AI	ISO 4049
3-point flexural strength	164 MPa	ISO 4049
Compressive strength	335 MPa	analogous ISO 9917
Water absorption	11 µg/mm <sup>3</sup>	ISO 4049
Water solubility	≤ 0.1 µg/mm <sup>3</sup>	ISO 4049
Abrasion	39 µm	ACTA-3-body
Diametral tensile strength	64 MPa	
Thermal expansion coefficient α	33-10-6 / K-1	Fraunhofer Institute Würzburg
Surface hardness	147 MHV	University of Rostock

\* Braun A; Temperature development inside the tooth during application of a thermo-viscous bulk-fill material; Report to VOCO; University of Aachen, 2019.

#### Clinical Case



Initial situation

Source: Dr. Walter Denner, Fulda / Germany



Minimally invasive prepared cavity at tooth 5



Filling the cavity with VisCalor bulk



Restoration two months after filling

## Caps Warmer

### Preheating device for composite caps<sup>1</sup>



#### Indications

Device for warming composite caps

#### Advantages

- Composite warming increases the viscosity of a composite, making the application easier
- Warms 2 finishing instruments, making it easier to sculpt the composite
- Holds 4 spare composite caps

- 3 heat levels for different viscosities
- No effect on physical properties of VOCO materials

#### Presentation

REF 9001 Caps Warmer  
REF 9003 Caps Warmer Tray

## VisCalor® Dispenser

Preheating dispenser for VOCO composite caps



### Indications

Heating and application of highly filled composites in caps



### Advantages

- Increased efficiency – rapid warming and immediate application in one device
- Homogeneous warming thanks to near-infrared technology
- Thoughtful design and proven shape for filling molar cavities
- Two customized programs (VisCalor bulk and additional VOCO composites)

### Presentation

REF 9143 VisCalor Dispenser – Preheating device  
 REF 9144 Changeable tops – 2 pcs.  
 REF 9145 Protective sleeves – 100 pack

## Twinky Star

Light-cured colored compomer filling material with glitter effect for deciduous teeth



### Indications

Filling of deciduous teeth



### Advantages

- 8 attractive colors
- Fast and easy direct application
- Excellent polishability
- Color guide with original material



### Presentation

REF 1680 Kit 40 × 0.25 g caps in eight different colors, color guide

REF 9301 Caps Dispenser

**Refill pack 25 × 0.25 g caps each:**

25 × 0.25 g	Shade	25 × 0.25 g	Shade
REF 1681	"Gold"	REF 1685	"Green"
REF 1682	"Silver"	REF 1686	"Orange"
REF 1683	"Blue"	REF 1687	"Lemon"
REF 1684	"Pink"	REF 1688	"Berry"
Shade Guide		REF 1689	

### Technical Data

Polymerization Shrinkage	2% (by volume)	
Filler Rate	77.8% (by weight)	(DIN 13922)
Transverse strength	116 MPa	(ISO 4049)
Compressive strength	316 MPa	(ISO 9917)
Wear	14.6 µm	(ACTA 250,000 cycles)

## Celalux 3

High intensity, lightweight, cordless LED curing light



### Indications

Curing of all light-cured dental materials whose polymerization is activated within a wavelength range of 450–480 nm

### Advantages

- Only 2.5 oz weight – more user-friendly
- Vibration after 10 and 20 seconds – no more annoying beeps make it more patient-friendly
- High light intensity at 1,300 mW/cm<sup>2</sup> – ensures high depth of cure
- Wavelength of 450-480 nm – allows curing of virtually all modern materials
- Includes spare battery to eliminate unnecessary down time

### Presentation

REF 9090 Celalux 3 (handpiece, battery charger, power cord with interchangeable main adapters, 2 lithium polymer batteries, 8 mm light guide, rubber shield, operating instructions)

REF 9091 Light guide 8 mm, autoclavable

REF 9092 Device base (Battery)

REF 9093 Rubber shield, 5 pcs.

### Technical Data

Light intensity (output)	1,300 mW/cm <sup>2</sup>
Wavelength range	450–480 nm
Total Operation Time	> 45 cycles of 20 sec. cures w/ fully charged battery
Operating voltage	100-240 V AC 50/60 Hz
Handpiece length	Ø 12.6 mm x L 210 mm
Handpiece weight	70 g (incl. device base and light guide)

IS GRAVITY WEIGHING DOWN YOUR CURING LIGHT?

**CELALUX® 3**

HIGH-PERFORMANCE LED

65% LIGHTER\*  
23% SMALLER\*

ENGINEERED FOR  
ELEGANCE AND POWER

\*Compared to the average weight and size of the top 3 selling models

AVERAGE WEIGHT:  
7.22 oz

WEIGHT:  
ONLY 2.5 oz

10.65"

8.27"

leading curing light models/hands

CELALUX 3

## GrandTEC

Resin-impregnated, light-cured glass fiber-reinforced strands for use in the dental adhesive technique



### Indications

For the reinforcement and stabilization of teeth in the dental adhesive technique

### Presentation

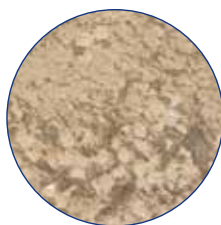
REF 1168 5 × glass fiber strands 55 mm each

### Advantages

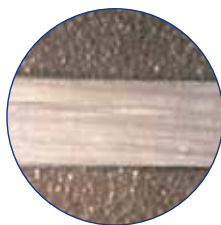
- Three times the reinforcement strength compared to polyethylene materials
- The ideal companion for the stabilization of teeth after orthodontic or periodontal therapy
- The perfect reinforcement in the fabrication of crowns and bridges
- For the temporary treatment of missing teeth; can also be used in the osseointegration process of an implant and in trauma therapy
- Compatible with all light-curing bonds and composites in direct and indirect restorations
- Does not rebound, unravel or fall apart when cut or adapted
- Safe and biocompatible
- No special gloves or tools needed

### Technical Data

3-point Flexural Strength (2 × 2) (in combination with Grandio Flow)	655 MPa	analogous ISO 4049
Modulus of Elasticity (2 × 2) (in combination with Grandio Flow)	13,600 MPa	derived from flexural strength test



The adjacent photo shows a section from a GrandTEC glass fiber, bonded with Grandio Flow. The strong cohesion between the impregnated glass fiber and the flow composite are impressively documented here. The E-modulus of the test specimen achieved a value of more than 13 MPa; the transverse strength is 5x higher than with composites without the additional use of GrandTec glass fiber.



The adjacent enlargement shows the homogeneous progression of the densely packed glass fibers with GrandTEC.



# Ionolux®

Light-cured resin-modified glass ionomer restorative material



## Indications

Class III and V restorations, primarily cervical fillings and root caries

Restoration of deciduous teeth

Small Class I restorations

Temporary restorations

Core build-ups

Linings

## Advantages

- Composite-like esthetics
- Light-curing for fast finish
- Immediately packable after application
- Does not stick to the instrument, easy to shape
- Excellent translucency for better esthetic results
- High fluoride release minimizes secondary caries
- Highly radiopaque
- No dentin conditioner or adhesive needed



## Presentation

REF 2115	Kit 50 application capsules (10 × A1, 30 × A2, 10 × A3)
REF 2117	Pack 20 application capsules A1
REF 2118	Pack 20 application capsules A2
REF 2119	Pack 20 application capsules A3
REF 2120	Pack 20 application capsules A3.5
REF 2121	Pack 20 application capsules B1
REF 2122	Bulk Pack 150 Application capsules A2
REF 2123	Bulk Pack 150 Application capsules A3
REF 2331	1 AC Applicator Type 1
REF 2334	1 AC Applicator Type 2
REF 9050	GIC Mixing Device

## Technical Data

Shear bond strength to dentin	8.7 MPa	ISO/TS 11
Shear bond strength to enamel	8.7 MPa	ISO/TS 11
3-Point flexural strength	60.7 MPa	ISO 9917-2
Compressive strength	219.6 MPa	analogue ISO 9917-1
Radiopacity	250 %AI	ISO 9917-2
Depth of cure (500 mW/cm <sup>2</sup> )	2 mm/20 s	ISO 4049
Working time	> 3 min	ISO 9

## Clinical Case 1



Tooth 20 with cervical defect

Source: Dr. Isma Goltz, Bremen / Germany



Tooth 20 immediately after treatment

## Clinical Case 2



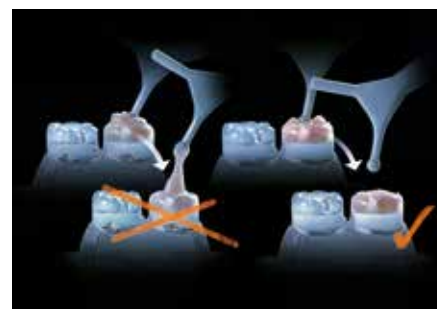
Teeth 3, 4 after excavation



Subsequent treatment with Ionolux

Source: Prof. Hervé Tassery, PU-PH, Faculty of Odontology, University of Marseille / France

## Non-Stick Handling





## IonoStar® Plus

Fast-setting glass ionomer restorative material



### Indications

Restorations of non-occlusal bearing Class I cavities  
 Semi-permanent restorations of Class I and II cavities  
 Restorations of cervical lesions, Class V cavities, root caries  
 Restorations of Class III cavities  
 Restoration of deciduous teeth  
 Base/Liner  
 Core build-up  
 Temporary restorations  
 Extended fissure sealing

### Presentation

REF 2540 Kit 50 application capsules  
 (10 × A1, 30 × A2, 10 × A3)  
 REF 2548 Pack 20 application capsules A1  
 REF 2543 Pack 20 application capsules A2  
 REF 2544 Pack 20 application capsules A3  
 REF 2545 Pack 20 application capsules A3.5  
 REF 2546 Bulk Pack 150 Application capsules A2  
 REF 2547 Bulk Pack 150 Application capsules A3  
 REF 2331 1 AC Applicator Type 1  
 REF 2334 1 AC Applicator Type 2  
 REF 9050 GIC Mixing Device

### Advantages

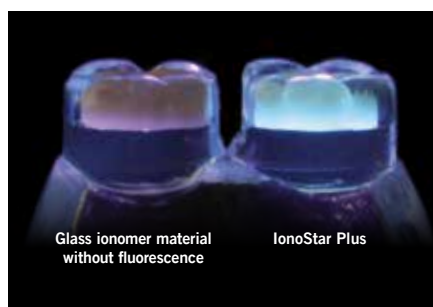
- Fast set time saves valuable chair time
- Does not stick to instrument for ease of application
- Two (2) stage consistency for easy adaptation, yet still packable
- Perfect wetting behavior for excellent marginal adaptation
- High translucency for better esthetic results
- Tooth-like fluorescence for better esthetic results
- Excellent physical properties support long-lasting restorations
- High fluoride release minimizes secondary caries

### Technical Data

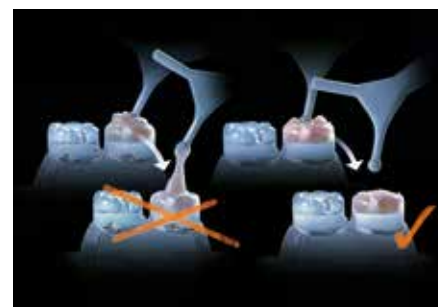
Compressive strength	245 MPa	ISO 9917-1
Radiopacity	230 %AI	ISO 9917-1
Mixing time	10 s	ISO 9917-1
Setting time	60 s	ISO 9917-1
Intraoral setting time	120 s	ISO 991



### Fluorescence



### Non-Stick Handling



## IonoStar® Molar

Glass ionomer restorative material



### Indications

Restorations of non-occlusal bearing  
Class I cavities  
Semi-permanent restorations of Class I  
and II cavities  
Restorations of cervical lesions, Class V  
cavities, root caries  
Restorations of Class III cavities  
Restoration of deciduous teeth  
Base/Liner  
Core build-up  
Temporary restorations



### Advantages

- Does not stick to instrument for ease of application
- Adjustable consistency so you can pick your preference
- Perfect wetting behavior for excellent marginal adaptation
- Immediately packable; can be shaped immediately after application and remains stable
- High translucency enables better esthetic results
- Excellent physical properties support long-lasting restorations
- High fluoride release that minimizes secondary caries

### Presentation

REF 2520 Kit 50 application capsules  
(10 × A1, 30 × A2, 10 × A3)  
REF 2524 Pack 20 application capsules A1  
REF 2525 Pack 20 application capsules A2  
REF 2526 Pack 20 application capsules A3  
REF 2532 Bulk Pack 150 application capsules A2  
REF 2533 Bulk Pack 150 application capsules A3  
REF 2331 1 AC Applicator Type 1  
REF 2334 1 AC Applicator Type 2  
REF 9050 GIC Mixing Device

\*Includes AC Applicator Type 1

### Technical Data

Compressive strength	275 MPa	ISO 9917-1
Radiopacity	250 %AI	ISO 9917-1
Mixing time	10–15 s	ISO 9917-1
Setting time	90 s	ISO 9917-1
Intraoral setting time	180 s	ISO 991

### Non-Stick Handling



## VOCO GIC Mixer®

Capsule mixing device



### Indications

Device for mixing powder and liquid in  
application capsules

### Advantages

- High oscillating frequency of 4,600 rpm, creating a particularly homogeneous mixture of powder and liquid
- Modern design
- Capsule holder allows simple insertion and removal of capsules

### Presentation

REF 9050 GIC Mixing Device

- User-friendly
- Quiet and practically vibration-free
- Mixing times can be freely selected between 1 and 99 seconds

## Final Varnish LC

Light-cured varnish for sealing of glass ionomer fillings



### Indications

Sealing and surface covering of glass ionomer restorations

Protection against moisture and dehydration



### Advantages

- Finish temporary and permanent restorations in seconds

### Presentation

REF 1241 Pack 2 × 3 ml bottles  
REF 2315 mixing pallets – 20 pack

## Easy Glaze®

Nano-filled, light-cured liquid polish and surface sealant



Not available  
in Canada!



### Indications

Surface sealing of glass ionomer cements, provisional crowns and bridges and definitive composite restorations

Protecting glass ionomer cement surfaces against the effects of moisture and dehydration immediately after placement

Sealing glass ionomer cement liners/build-up restorations before taking impressions

Sealing and protecting adhesive interfaces between restoration and tooth structure



### Advantages

- Finish temporary and permanent restorations in seconds
- Natural gloss and tooth-like fluorescence
- Can be used on all types of direct and indirect restorations
- Nano-filled for better wear resistance
- Works with LED, PAC and halogen curing lights
- Protects against staining and discoloration
- Increase patient satisfaction
- Excellent protection of glass ionomers against moisture and dehydration

### Presentation

REF 1016 5 ml bottle, accessories  
REF 2245 easy brushes – 50 pack  
REF 2315 mixing pallets – 20 pack

# INDIRECT RESTORATION

## VPS Impression Materials

V-Posil Heavy Soft Fast	
V-Posil Putty Fast	41
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## V-Posil® Heavy Soft Fast · V-Posil® Putty Fast

Time optimized VPS tray material



### Indications

**V-Posil Heavy Soft Fast** is to be used as heavy body material for:

- One-step impression technique (simultaneous technique) using dual viscosities
- Two-step impression technique using dual viscosities
- Functional impressions

**V-Posil Putty Fast** is used as a preliminary material for:

- Two-step putty-wash impression technique
- One-step putty-wash impression technique
- Two-step putty-wash impression technique using a foil (plastic putty spacer)
- One-step putty impression technique for forming functional peripheries

### Advantages

- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Heavy Soft Fast material offers an optimal viscosity to load the tray but remains soft enough after it sets for easy removal from the mouth
- Lab technicians will appreciate the post-set hydrophilicity (<6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

### Presentation

#### V-Posil Heavy Soft Fast

- REF 2565 V-Posil Heavy Soft Fast Cartridge  
1 x 380 ml, mixing tips type 30
- REF 2566 Cartridge 2 x 380 ml
- REF 2567 Cartridge 2 x 50 ml, mixing tips type 16
- REF 2568 Cartridge 10 x 50 ml
- REF 2196 mixing tips type 16 – 50 pack (50 ml)
- REF 2203 mixing tips type 30 – 50 pack (380 ml)

#### V-Posil Putty Fast

- REF 2561 Jar 2 x 450 ml
- REF 2562 Jar 8 x 450 ml
- REF 2564 Cartridge 2 x 380 ml,  
mixing tips type 30
- REF 2158 Type 2 dispenser (50 ml cartridge)





## V-Posil® Light Fast · X-Light Fast

Time optimized VPS wash material



### Indications

**V-Posil Light Fast & V-Posil X-Light Fast** are used as syringeable impression materials for:

- Two-step putty-wash impression technique
- One-step putty-wash impression technique
- Two-step impression technique using a foil (plastic putty spacer)
- One-step impression technique (simultaneous technique) using dual viscosities
- Reline impressions
- Fabricating full or partial dentures

### Advantages

- Excellent flow without slumping
- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure, while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- Setting times of the light body wash and heavy body tray materials are synchronized (match)
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Due to its low polyether-like contact angle of less than 10°, V-Posil's superior hydrophilicity displaces fluids (saliva, blood, etc.) creating an enhanced contact to the dental anatomy and yielding more precise impressions
- Lab technicians will appreciate the post-set hydrophilicity (< 6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

### Presentation

#### V-Posil Light Fast

REF 2573 Cartridge 2 × 50 ml, mixing tips type 7  
REF 2574 Cartridge 10 × 50 ml  
REF 2186 mixing tips type 7 – 50 pack  
REF 2141 intraoral tips type 3 – 50 pack

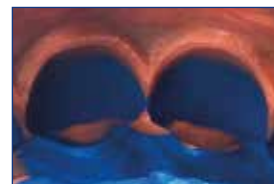
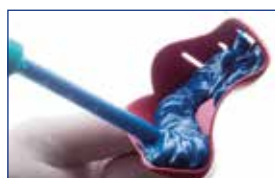
#### V-Posil X-Light Fast

REF 2575 Cartridge 2 × 50 ml, mixing tips type 7  
REF 2186 mixing tips type 7 – 50 pack  
REF 2141 intraoral tips type 3 – 50 pack

REF 2158 Type 2 dispenser (50 ml cartridge)



### Clinical Case



Source: Mauricio Watanabe, Cristian Sánchez, Brazil

## V-Posil® Mono Fast

Time optimized VPS medium body impression material



### Indications

**V-Posil Mono Fast** is used as a medium-bodied tray or syringeable impression material for:

- Taking impressions over fixed/removable restorations and implants (i.e., transferring impression posts and bridge components)
- Functional impressions
- Fabricating crown and bridgework or inlays
- Fabricating full or partial dentures
- Reline impressions
- Transferring root posts when fabricating posts and cores indirectly
- Multi-tray technique
- Use in the simultaneous mixing technique as well as the putty-wash technique

### Advantages

- Excellent flow without slumping
- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure, while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- Setting times of the light body wash and heavy body tray materials are synchronized (match)
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Due to its low polyether-like contact angle of less than 10°, V-Posil's superior hydrophilicity displaces fluids (saliva, blood, etc.) creating an enhanced contact to the dental anatomy and yielding more precise impressions

### Presentation

#### V-Posil Mono Fast

REF 2569 Cartridge 1 × 380 ml, mixing tips type 30  
REF 2570 Cartridge 2 × 380 ml  
REF 2571 Cartridge 2 × 50 ml, mixing tips type 16  
REF 2572 Cartridge 10 × 50 ml

REF 2196 mixing tips type 16 – 50 pack (50 ml)  
REF 2203 mixing tips type 30 – 50 pack (380 ml)  
REF 2133 intraoral tips type 6 – 50 pack  
REF 2158 Type 2 dispenser (50 ml cartridge)

- Lab technicians will appreciate the post-set hydrophilicity (< 6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal



## VOCO Dynamic Dispenser

Dynamic mixing device



### Indications

Apparatus for automatic dosing and mixing of VOCO impression materials in the 5:1 cartridge

### Advantages

- Homogeneous dynamic mixing of V-Posil components to ensure consistently high material quality
- Bubble-free dispensing
- Fill level display
- Two feed speeds
- Electronic residual detection

### Presentation

REF 9140 Mixing device 110 V int. E1  
REF 2203 mixing tips type 30 – 50 pack

## VOCO Retraction Paste

Astringent retraction paste with extra-long and fine tip that fits directly into the sulcus



### Indications

For temporary retraction of the marginal gingiva to provide a dry gingival sulcus when the periodontium is healthy prior to, e. g.

- analog or digital impressions
- cementation of temporary and permanent restorations
- preparation of class II and V restorations

### Advantages

- Aluminum chloride-based – for a clean and dry sulcus
- Unit dose with extra-long, thin and flexible tip – for hygienic, simple and precise application into the sulcus
- 2-Stage Viscosity – initially flowable for easy, low-force application, then stabilizes for optimal retraction
- Turquoise blue color – contrasts well with the gingiva
- Rinseable removal – for quick clean-up without staining
- Up to 50% faster compared to just cord

### Presentation

REF 1012 Caps 25 × 0.3 g  
REF 1013 Caps 100 × 0.3 g  
REF 9301 Caps Dispenser



Before



During



After



After

Source: Dr. Susan McMahon

## Registrado® X-tra

Extra hard, fast and flexible bite registration A-silicone



### Indications

Bite registration

Fixing of face bow registration

Location material for intraoral pin tracing template



Intraoral tips provide a flat ribbon of material for better coverage of the occlusal surface



### Advantages

- Optimal rigidity for precise trimming
- Two-phase set: After 40 sec. the material is hard and dimensionally stable but still elastic for easy removal. Extreme final hardness is reached after 90 sec.
- Firm non-dripping consistency
- Thixotropic for easy application and no occlusion resistance
- Temperature-controlled setting for sufficient application time and short intraoral set time (only 30–40 sec.)
- Good contrast for easy identification

### Presentation

REF 2035 Pack 2 x 50 ml 1:1 cartridges, mixing tips type 16, intraoral tips type 2  
REF 2036 Clinic Pack 8 x 50 ml cartridges, mixing tips type 16, intraoral tips type 2  
REF 2196 mixing tips type 16 – 50 pack  
REF 2140 intraoral tips type 2 – 50 pack  
REF 2158 Type 2 dispenser

- Convenient trimming with scalpel, scissors or cutter
- Intraoral tips provide a flat ribbon of material for better coverage of the occlusal surface
- No distortion in articulation, especially in free-end situations

## Registrado® Clear

Transparent A-silicone fast-setting bite registration material



Not available in the USA!



### Indications

Bite registration

Registration key for intraoral support pin registration

Fixation of X-ray balls

Front and occlusal stamp

Silicone key for composite fillings



### Advantages

- High final end hardness and high translucency
- Guaranteed to remain on the occlusal surface with great consistency
- Time controlled curing process – curing time is accelerated when the patient's mouth is closed
- Perfect for light-curing through the material
- Great dimensional stability (>99%)

### Presentation

REF 2037 Pack 1 x 50 ml 1:1 cartridge, accessories  
REF 2196 mixing tips type 16 – 50 pack  
REF 2140 intraoral tips type 2 – 50 pack  
REF 2158 Type 2 dispenser

## Clip

Light-cured provisional filling material in caps or syringes



### Indications

All kinds of temporary fillings, temporary protection for inlay and onlay technique



Source: Dr. Peter Bastobbe, Mainleus / Germany

### Advantages

- Can be easily removed in one piece
- Easy handling
- Remains flexible even after curing
- Excellent cavity sealing
- Transparent, no discoloration
- Does not stick to instrument
- No material waste
- Time saving – no handmixing required

### Presentation

REF 1284 Pack 2 x 4 g syringes  
REF 1285 Tripack 3 x 4 g syringes  
REF 1287 Pack 25 x 0.2 g Caps  
REF 9301 Caps Dispenser

### Technical Data

Depth of cure	11 mm
Surface hardness	90 Shore A
Diametrical tensile strength	27 MPa
Water solubility (14 days)	0.46%
Marginal seal behavior	0.5 VAS

## Clip Flow

Light-cured, flowable provisional filling material in syringes



### Indications

Temporary inlay and onlay treatments of the cavity

Sealing of openings for implant screws

Relining material for temporary crowns and bridges

Block out material for retentive areas in the dental arch, e.g. before taking impressions

Covering of the gingival margin

Fixing of resin matrices during filling placement

Temporary filling of cavities

### Advantages

- Easy to place – easy to remove in one piece
- No damage to preparation boundaries
- Durable and saliva-proof
- Non-sticky
- Time-saving through light-curing
- Elastic
- Flowable
- NDT®<sup>1</sup> (Non-Dripping Technology) syringe

### Presentation

REF 1282 Pack 2 x 1.8 g syringe, accessories  
REF 2148 application tips type 46 – 100 pack



Abutment with open aperture

Aperture sealed with Clip Flow

Light-curing of the material

Finished seal

## Provicol®

Medium retention zinc oxide, non-eugenol temporary cement with calcium hydroxide in syringes, cartridges or tubes



### Indications

Temporary cementation of crowns and bridges

SC  
self-curing

temporary

contains  
Ca(OH)<sub>2</sub>

### Advantages

- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Good adhesion to temporaries
- Low film thickness for easy placement of temporary crowns & bridges for a perfect fit
- Peelable consistency for easy clean-up
- Highly economical direct application
- No eugenol allergies
- No inhibition of curing reaction of resin-based filling, cementing materials, or glass ionomer cements

### Presentation

REF 1074 Pack 5 ml QuickMix syringe, mixing tips type 10  
REF 2189 mixing tips type 10 – 50 pack  
REF 1076 Pack 2 x 65 g cartridges, 40 mixing tips type 6  
REF 2185 mixing tips type 6 – 50 pack  
REF 1075 Set 25 g base, 25 g catalyst in tubes

## Provicol® QM Plus

High Retention, zinc oxide, non-eugenol temporary cement with calcium hydroxide



### Indications

Temporary cementation of provisional restorations (crowns, bridges, inlays and onlays)

Temporary cementation of definitive restorations (crowns, bridges, inlays and onlays)

Temporary obturation of small single-surface cavities

SC  
self-curing

auto  
mix

temporary

contains  
Ca(OH)<sub>2</sub>

### Advantages

- Increased strength for more retention and secure adhesion
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Low film thickness for easy placement of temporary crowns & bridges for a perfect fit
- Peelable consistency for easy clean-up
- Highly economical direct application
- No eugenol allergies
- No inhibition of curing reaction of resin-based fillings, cementing materials or glass ionomer cements
- High level of radiopacity

### Presentation

REF 1098 Pack 5 ml QuickMix syringe, accessories  
REF 2189 mixing tips type 10 – 50 pack



## Provicol® QM Aesthetic

Translucent zinc oxide, non-eugenol, high retention temporary cement with calcium hydroxide



### Indications

Temporary cementation of provisional or definitive inlays, onlays, crowns, partial crowns/veneers and bridges

Temporary filling of small one-surface cavities



### Advantages

- Translucent appearance that will not change the overlying color of the temporary
- Does not permanently adhere to composite-based core-build ups for easy removal
- Very low film thickness (7 µm) enhances the fit and secures an excellent retention
- Semi-elastic consistency allows for an easy clean up and removal
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Non-eugenol for the use of permanent resin cements and bis-acrylic temporaries
- Radiopaque

### Presentation

REF 1108 5 ml, QuickMix syringe, accessories  
REF 2189 mixing tips type 10 – 50 pack

### Clinical case



Easy removal of excess material



Attractive result with ZrO<sup>2</sup> crowns

Source:  
Hamilton Renato  
Pereira Lima, Santos,  
São Paulo / Brazil

## Bifix® Temp

Dual-cured, transparent, composite-based temporary cement material



### Indications

Temporary cementation of provisional restorations



### Advantages

- White translucent shade – high esthetics
- Dual-cured – fast setting and “tack cure” for excess removal
- Strong adhesion – secures long-term temporaries
- Easy excess removal in light- and self-cure mode – fast working
- 5 micron film thickness – no “jack-ups” of temporaries
- Short mixing tip – less waste

### Presentation

REF 1055 Pack 5 ml QuickMix syringe universal, accessories  
REF 2188 mixing tips type 9 – 50 pack

## Structur® 2 SC

Fast setting temporary BIS-Acrylic crown and bridge material in 1:1 cartridge and QuickMix syringe



### Indications

Temporary crowns, bridges, inlays and onlays

### Advantages

- Fast setting time: less than 1 minute in the mouth
- Strong and wear-resistant
- Better esthetics: available in 8 popular shades
- Long-term color stability and composite-like polishability
- Quick and easy automix application: ideal bubble-free consistency
- Economical due to smallest possible tips: up to 40% less waste
- MMA-free: no unpleasant taste or smell
- Minimal shrinkage
- Low exothermic setting temperature



### Presentation

REF 1499 Intro Kit 75 g cartridge shade A2, dispenser type 2, mixing tips type 6

REF 1478 Intro Kit 75 g cartridge shade A3, dispenser type 2, mixing tips type 6

Shade	Pack 75 g safety cartridge, mixing tips type 6
A1	REF 1479
A2	REF 1480
A3	REF 1481
A3.5	REF 1490
B1	REF 1482
Bleach (BL)	REF 1485
C2	REF 1486

REF 1492 Bulk Pack 5 × 75 g cartridges shade A2, mixing tips type 6

REF 1491 Bulk Pack 5 × 75 g cartridges shade A3, mixing tips type 6

REF 2185 mixing tips type 6 – 50 pack

REF 2189 mixing tips type 10 – 50 pack

REF 2158 Type 2 dispenser

### Structur 2 QuickMix syringe

Shade	QuickMix syringe 8 g, mixing tips type 10
A1	REF 1309
A2	REF 1310
A3	REF 1311
B1	REF 1312

### Clinical case



Close-Up



Detailed view of wax-up



Close-ups of the temporary restoration with Structur 2

Source: Irfêo Saraiva de Camargo, Santo Agostinho / Brazil

Technical Data	
Working time	30–50 sec.
Intraoral setting time (ISO 4049)	40–70 sec.
Compressive strength (ISO 9917)	215 MPa
3-Point flexural strength (ISO 4049)	92.7 MPa
Diametral tensile strength	30 MPa
Modulus of elasticity analogous (ISO 4049)	2,500 MPa
Maximum intrapulpal temperature	< 40.5 °C – University of Münster

## Structur® 3

Nano-filled, quick setting, strong temporary BIS-Acrylic crown & bridge material with “Wipe & Go” Technology



### Indications

Fabrication of temporary crowns, bridges, inlays, onlays, partial crowns, veneers and temporary posts

Fabrication of long-term temporaries

Lining of pre-fabricated temporary crowns made from composite materials, polycarbonate or metal

### Advantages

#### • Fast and Economical

- no more polishing – just wipe with alcohol for a brilliant gloss
- only 45 sec. intraoral setting time
- small mixing tips and no more “bleeding” before changing mixing tips yields at least 20 more units per cartridge compared to 10:1 and 4:1 products

#### • Durable

- high fracture resistance and compressive strength
- suited for long-span bridges and long-term provisionals

#### • Esthetic

- natural gloss and tooth-like fluorescence
- color stable for long-term use
- available in eight VITA®<sup>1</sup> matching shades



### Presentation

REF 2500 Intro Kit 50 ml Cartridge, shade A2, dispenser type 2, mixing tips type 6

Shade	Cartridge 50 ml, mixing tips type 6	Shade	Cartridge 50 ml, mixing tips type 6
A1	REF 2503	A3.5	REF 2506
A2	REF 2504	B1	REF 2507
A3	REF 2505	Bleach (BL)	REF 2510

REF 2512 Cartridge 5 × 50 ml, shade A2, mixing tips type 6

REF 2513 Cartridge 5 × 50 ml, shade A3, mixing tips type 6

REF 2185 mixing tips type 6 (Cartridge) – 50 pack

REF 2189 mixing tips type 10 (QM syringe) – 50 pack

REF 2158 Type 2 dispenser

### Structur 3 QuickMix syringe

Shade	QuickMix syringe 5 ml, mixing tips type 10
A1	REF 2515
A2	REF 2516
A3	REF 2517

### Technical Data

Working time	30–50 sec.
Intraoral Setting Time	40–70 sec.
Compressive Strength	509 MPa
3-point Flexural Strength	113 MPa
Diametral Tensile Strength	48 MPa
E-modulus	1,900 MPa
Fluorescence	Yes
Setting temperature	max. 3.6°F above mouth temp.

## Structur<sup>®</sup> Premium

Highly durable, fast-setting temporary BIS-Acrylic crown and bridge material with added flexural strength



### Indications

Temporary crowns, bridges, inlays and onlays

### Advantages

- **Ceramic-like esthetics**
  - brilliant gloss
  - natural fluorescence
- **Hard as enamel**
  - high fracture resistance, compressive and tensile strengths – ideal for long-span bridges
- **Easy handling**
  - fast and easy trimming and polishing
  - minimal inhibition layer
  - 1:1 standard dispenser
  - fast intraoral setting time (30-45 sec.)

**SC**  
self-curing

**auto  
mix**

temporary

**7**  
shades

### Presentation

Shade	Pack 75 g safety cartridge, mixing tips type 6
A1	REF 1712
A2	REF 1713
A3	REF 1714
A3.5	REF 1717
B1	REF 1718
Bleach (BL)	REF 1716
REF 1719 Bulk Pack 5 × 75 g cartridges, shade A3, mixing tips type 6	
REF 2185 mixing tips type 6 (Cartridge) – 50 pack	
REF 2158 Type 2 dispenser	

### Technical Data

Working time	30 sec.
Setting time in mouth	30–45 sec.
Compressive strength	450 MPa
Diametral tensile strength	48 MPa
Transverse strength (10 min.)	100 MPa
Transverse strength (7 days water storage)	119 MPa
Flexural modulus	2,500 MPa
Fluorescence	Yes
Setting temperature	max. 3.6 °F above mouth temp.



Initial situation



Structur Premium temporary

Source: Images are a courtesy of Dr. Frank Milnar

## Grandio Core Dual Cure

Grandio's Nano-technology for core build-ups



### Indications

Adhesive core build-up on vital and non-vital teeth

Cementing of root posts



### Advantages

- Dentin-like hardness – eliminates ditching
- Stackable consistency
- Nano particles for tooth-like strength and flexibility
- 77% filled for long-lasting success rates
- High radiopacity 365 %AI for easy X-ray identification
- Suitable as a post cement with long endo tips

### Presentation

REF 1910 Pack 10 g QuickMix syringe Dentin  
 REF 1911 Pack 10 g QuickMix syringe Blue  
 REF 1912 Pack 10 g QuickMix syringe White  
 REF 2191 mixing tips type 11 - 50 pack  
 REF 2142 intraoral tips type 4 - 50 pack

### Clinical Case



High loss of substance in the anterior area after excavation



Condition after build-up with Grandio Core Dual Cure, ready for impression



Final restoration

Source: Dr. Walter Denner, Fulda / Germany

## Rebilda® DC

Dual-cured core build-up composite  
in an automix delivery system



### Indications

Adhesive core build-up on vital and non-vital teeth

Cementing of fiber-reinforced resin posts

### Advantages

- Dual-cured: light-cure to accelerate finishing or simply allow Rebilda to self-cure to maximize working time
- Tooth-like surface hardness – cuts like dentin – eliminates ditching
- Low heat development even with large core volumes
- High adhesion with system bond – fewer parapulpal pins
- 3 shades: blue, white and dentin
- High radiopacity
- Fluoride release from both bond and core build-up material
- Curved intraoral tip assists with hard-to-reach areas



### Presentation

#### Cartridge

- REF 1395 Intro Kit 50 g cartridge Rebilda DC dentin shade, 8 ml Futurabond DC, mixing tips type 12, dispenser type 3, accessories
- REF 1396 Pack 50 g cartridge Rebilda DC dentin shade, mixing tips type 12, intraoral tips type 3
- REF 1397 Pack 50 g cartridge Rebilda DC blue shade, mixing tips type 12, intraoral tips type 3
- REF 1398 Pack 50 g cartridge Rebilda DC white shade, mixing tips type 12, intraoral tips type 3
- REF 2192 mixing tips type 12 – 50 pack
- REF 2141 intraoral tips type 3 – 50 pack
- REF 2199 mixing tips type 19 (bendable) - 30 pack
- REF 2259 Type 3 dispenser

#### QuickMix Syringe

- REF 1402 Intro Kit 10 g QuickMix syringe Rebilda DC dentin shade, 8 ml Futurabond DC, mixing tips type 11, accessories
- REF 1403 Pack 10 g QuickMix syringe Rebilda DC dentin shade, mixing tips type 11, intraoral tips type 4
- REF 1404 Pack 10 g QuickMix syringe Rebilda DC blue shade, mixing tips type 11, intraoral tips type 4
- REF 1405 Pack 10 g QuickMix syringe Rebilda DC white shade, mixing tips type 11, intraoral tips type 4
- REF 2191 mixing tips type 11 – 50 pack
- REF 2142 intraoral tips type 4 – 50 pack
- REF 2139 intraoral tips type 1 (endo tip) – 50 pack



### Technical Data

Working time	2 min.
Setting time	2 min. (dentin shade)
Transverse strength (ISO 4049)	121 MPa
Shear bonding strength on dentin	22 MPa

Source: Prof. Dr. Jürgen Manhart, Munich / Germany



## Rebilda® Post System

Complete post & core system with fiber-reinforced resin posts

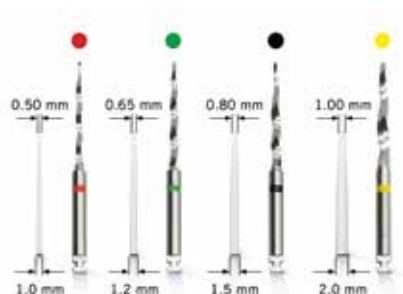


### Indications

Endodontic post build-up for support and anchorage of coronal restoration in situations with insufficient tooth substance

### Advantages

- Highly translucent for excellent esthetics
- High radiopacity 350 %AI
- Dentin-like elasticity for gentle root treatment
- Dentin-like translucency for esthetic restorations
- High retention rate for strong bond
- Excellent light conductivity and diffusion for use with dual-cured materials



Post illustrations are not actual size.  
Ø 1.0 mm is not included in the kit (REF 1770)

### Presentation

#### REF 1770 Intro Kit:

15 posts 3 drills: 5 posts each (Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm), 1 drill each (Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm)

#### REF 1782 Rebilda Post System Kit II:

5 posts each of (Ø 1.0 mm, Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm), 1 drill each of (Ø 1.0 mm, Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm), 5 ml Ceramic Bond, 20 Futurabond U SingleDose, 10g QuickMix syringe Rebilda DC dentin, accessories

#### Refills (posts):

Rebilda Post 1.0, 5 Posts, Ø 1.0 mm	REF 1775
Rebilda Post 1.2, 5 Posts, Ø 1.2 mm	REF 1772
Rebilda Post 1.5, 5 Posts, Ø 1.5 mm	REF 1773
Rebilda Post 2.0, 5 Posts, Ø 2.0 mm	REF 1774
Ceramic Bond, 5 ml Bottle	REF 1106

#### Refills (drills):

Rebilda Post 1.0, 1 Drill, Ø 1.0 mm	REF 1780
Rebilda Post 1.2, 1 Drill, Ø 1.2 mm	REF 1777
Rebilda Post 1.5, 1 Drill, Ø 1.5 mm	REF 1778
Rebilda Post 2.0, 1 Drill, Ø 2.0 mm	REF 1779



Cross-sections show even distribution of the glass fibers



Highly radiopaque

Source: Priv. Doz. Dr. A. Braun, University of Bonn

## Rebilda® Post GT

Bundled glass fiber-reinforced resin post



### Indications

Core build-up restorations with root posts for endodontically treated teeth

### Advantages

- Innovative bundled fine posts enable easy placement within any root canal morphology
- Minimizes the need to mechanically prepare root canals, preserving healthy tooth structure and saving valuable chair time
- Increases surface area within build-up restoration, maximizing adhesion and retention values
- Optimal adaptation to all canal anatomies for better ease-of-use
- All materials in the set are perfectly coordinated to maximize the success of the restoration
- **Futurabond U**
  - reliable self-curing
  - high bond strength without separate etching
- **Rebilda® DC**
  - also suitable for post cementation
  - cuts like dentin to minimize ditching
  - excellent physical properties enhance longevity
  - low setting temperature

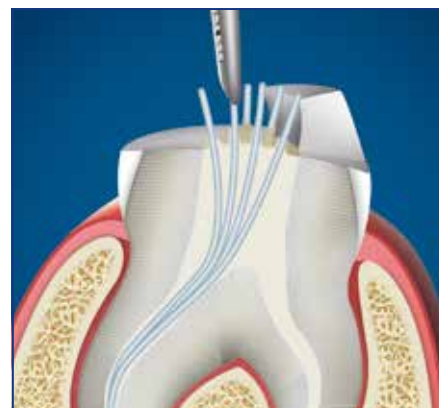
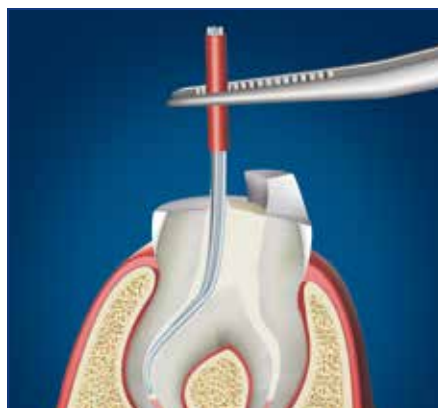
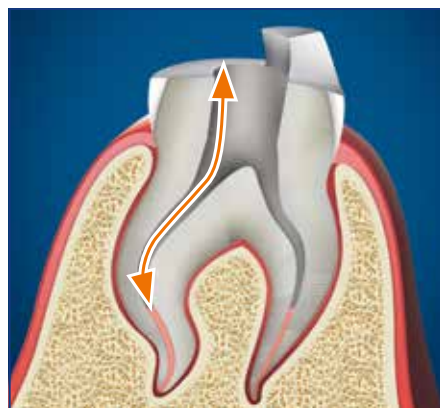
### Presentation

#### Rebilda Post GT - System

REF 1972 Kit 5 posts each of (~ Ø 0.8 mm, ~ Ø 1.0 mm, ~ Ø 1.2 mm, ~ Ø 1.4 mm), Ceramic Bond bottle 5 ml, Futurabond U SingleDose 20 pcs., Rebilda DC dentin QuickMix syringe 10 g, accessories

#### Refills Post GT:

5 x No. 4 (~ Ø 0.8 mm)	REF 1973
5 x No. 6 (~ Ø 1.0 mm)	REF 1974
5 x No. 9 (~ Ø 1.2 mm)	REF 1975
5 x No. 12 (~ Ø 1.4 mm)	REF 1976



## Quick Up®

Tissue colored implant pick-up system  
with new Quick Up method



### Indications

Self-cured composite cementation material for attachments such as ball, Locator® and telescopic anchors in full and partial dentures

Reattachment of secondary elements such as bar retainers in acrylic-based dentures

### Advantages

- Faster with Quick Up method
  - Work without vent holes and excess material removal
  - Under fill with 2.5 minute fast-setting, self-cured material
  - Finish with light-cured component
- Direct pick-up results with more accuracy compared to indirect method
- Complete system with checking and block out silicone – Fit Test C & B
- Low heat, self-curing material avoids tissue irritations
- Tasteless and odorless
- High bond strength to acrylic denture base
- Allows pick-up of any attachment

### Presentation

- REF 1625 Kit 7.5 g QuickMix syringe, 2 g syringe Quick Up LC, 4 ml Adhesive, 5 ml QuickMix syringe Fit Test C & B, accessories
- REF 1626 Pack 7.5 g Quick Up QuickMix syringe, type 10 mixing tips
- REF 1627 Pack 2 g Quick Up LC syringe, type 44 intraoral tips
- REF 1628 Pack 4 ml Quick Up adhesive
- REF 2189 mixing tips type 10 – 50 pack
- REF 2144 intraoral tips type 44 – 100 pack
- REF 2247 single tim – 100 pack
- REF 2315 mixing pallets – 20 pack



### Quick Up Application



Implant with fitted attachments



Prosthetic base with the recesses for the attachments already created



Checking the accuracy of the fit with Fit Test C & B



Checking of attachments for fitting accuracy with Fit Test C & B



Blocking-out, covering of primary parts/gingiva with Fit Test C & B



Applying Quick Up from the QuickMix syringe



Applying Quick Up LC to correct deficits and superficial defects



Cemented attachment in the prosthesis

## Ceramic Bond

One component coupling agent (Silane)  
available in a bottle or SingleDose



### Indications

Coupling agent for achieving optimal chemical adhesion between silicate or aluminum oxide ceramics (incl. zirconium dioxide) and composite materials



### Advantages

- Provides optimal conditions for a permanent bond between the indirect restoration and the resin cement

### SingleDose

- No mixing required
- Easy, quick and hygienic
- No additional devices required
- No spilling in any position

### Presentation

REF 1107 Pack 50 x .05 ml SingleDose, accessories  
REF 1106 5 ml bottle  
REF 2247 single tim – 100 pack  
REF 2315 mixing pallets - 20 pack

## Bifix® SE

Dual-cured, universal, self-adhesive resin cement



### Indications

#### Cementation of:

Crowns

Bridges

Inlays and onlays

Endodontic posts made from ceramic, zirconium dioxide and metal



### Advantages

- Time saving – no additional bond, prime or etch steps needed
- Ease of use – gel-phase cleanup, no refrigeration, no hand-mixing or trituration required
- High bond strength without an adhesive
- High flexible strength and low water solubility for long-term success
- Low 5–10 micron film thickness – cuts down on adjustment time
- Compatibility with common materials – ceramic and zirconia, CAD/CAM materials, PFMs and metal restorations
- Efficient self-cure mode – sets up completely without any light
- Radiopaque for excellent identification under x-ray

### Presentation

REF 1784 Kit 3 x 5 g QuickMix syringes, shades U, T and WO, mixing tips type 14 and 15, type 1 intraoral tips  
REF 1785 Refill 5 g QuickMix syringe, shade U (universal), mixing tips type 14 and 15, type 1 intraoral tips  
REF 1786 Refill 5 g QuickMix syringe, shade T (transparent), mixing tips type 14 and 15, type 1 intraoral tips  
REF 1787 Refill 5 g QuickMix syringe, shade WO (white-opaque), mixing tips type 14 and 15, type 1 intraoral tips  
REF 2194 mixing tips type 14 – 50 pack  
REF 2195 mixing tips type 15 – 50 pack  
REF 2139 intraoral tips type 1 – 50 pack

### Technical Data

Working time (extra-oral)	90 sec
Setting time	4 min
Film thickness	5–10 µm
Curing depth	2 mm/20 sec
Water solubility	1 µg/mm³
Flexural Strength	160 MPa (LC), 150 MPa (CC)
Radiopacity	227 %Al
pH (at application)	2.5 (acidic)
pH (after curing)	neutral

## Bifix® QM

Dual-cured, radiopaque, resin-based adhesive cement system



### Indications

#### Adhesive cementation of:

Inlays and onlays

Crowns (full and partial)

Veneers, facets

Pins and posts

Bridges and adhesive bridges (Maryland bridges)

### Advantages

- Easy gel phase clean-up
- Truly universal for all cementation indications and all substrates
- Low film thickness saves occlusal adjustment time
- Low water uptake avoids shade shifting and bond failures
- Fast bonding with dual-cure self-adhesive Futurabond DC
- High radiopacity for easy x-ray identification

### Presentation

REF 1217 Kit 10 g syringe universal, Futurabond DC 4 ml liquid 1, 4 ml liquid 2, 5 ml Ceramic Bond, accessories

REF 1218 Refill 10 g syringe universal

REF 1219 Refill 10 g syringe transparent

REF 1759 Refill 10 g syringe white-opaque

REF 1106 Refill 5 ml Ceramic Bond

REF 1163 Pack Futurabond DC 4 ml liquid 1, 4 ml liquid 2

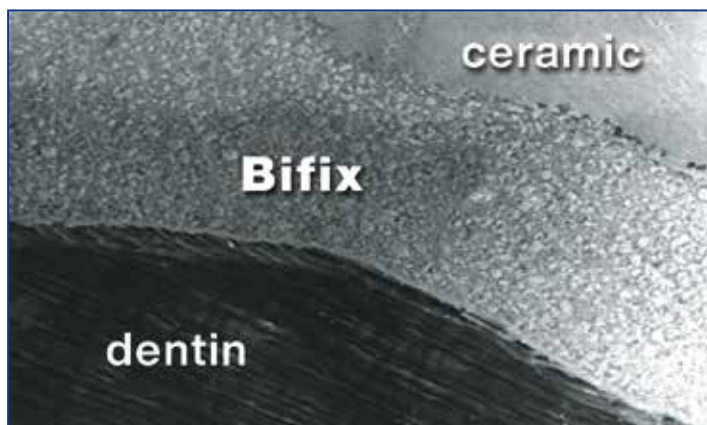
REF 2191 mixing tips type 11 – 50 pack

REF 2142 intraoral tips type 4 – 50 pack

REF 2315 mixing pallets – 20 pack

### Technical Data

Film thickness	5–10 µm
Working time	2.5–3.5 min
Setting time	3 min after inserting the restoration
Depth of cure	4 mm/10 s
Water solubility	<0.3 µg/mm <sup>3</sup>
Compressive strength	297 MPa
Flexural strength	138 (LC) / 113 (CC) MPa



Excellent adhesion between Bifix and ceramic.

Source: Prof. Behrend University of Rostock 2006

## Meron®/AC

### Glass ionomer cement

 Not available  
in Canada!



#### Indications

Cementation of crowns, bridges, inlays, onlays, pins, posts and orthodontic bands

**Meron**  
Powder and Liquid - Hand Mixed

**Meron AC**  
Direct-activation application capsules for less waste, better consistency and less mess.



#### Advantages

- Very good flow properties for good wetting behavior
- Low film thickness (15–20 µm) that saves occlusal adjustment time
- High translucency for better esthetic results with ceramics
- Easy excess removal – saves time
- High fluoride release
- High bond strength

#### Presentation

##### Meron

REF 1086 Pack 35 g powder, 15 ml liquid

REF 1090 Eco Pack 15 g powder, 7 ml liquid

##### Meron AC

REF 1242 Pack 50 capsules

REF 2331 1 AC Applicator Type 1

REF 2334 1 AC Applicator Type 2

REF 9050 GIC Mixing Device

## Meron® Plus/AC

### Resin modified glass ionomer cement

 Not available  
in Canada!



#### Indications

Cementation of crowns, bridges, inlays and onlays made from ceramic, zirconium and metal

**Meron Plus**  
Powder and Liquid - Hand mixed

**Meron Plus AC**  
Direct activation application capsules for less waste, better consistency and less mess.



#### Advantages

- Extremely thin film thickness (< 17 µm)
- Prolonged soft-elastic setting phase offers more time for convenient removal of excess material
- Low setting temperature
- Excellent biocompatibility
- Excellent chemical-physical properties due to the VOCO glass ionomer technology

#### Presentation

##### Meron Plus

REF 1731 15 g powder

REF 1732 10 ml liquid

##### Meron Plus AC

REF 1736 Pack 50 application capsules

REF 1737 Pack 150 application capsules

REF 2331 1 AC Applicator Type 1

REF 2334 1 AC Applicator Type 2

REF 9050 GIC Mixing Device

#### Technical Data

Working time (ISO 9917-2)	2 min
Intraoral setting time (ISO 9917-2)	3–5 min
Compressive strength (ISO 9917-1)	111 MPa
Film thickness (ISO 9917-2)	11 µm
Water solubility (ISO 7489)	0.4%
Shear bond strength to dentin (ISO/TS 11405)	8 MPa
Adhesion to metal (ISO/TS 11405)	9 MPa
Radiopacity (ISO 9917-2)	> 200 %Al



## Meron® Plus QM

Paste-to-Paste resin modified glass ionomer cement  
in a QuickMix syringe



### Indications

#### Cementation of:

Metal-based inlays, onlays, crowns and bridges

High-strength (zirconium dioxide-based) all-ceramic crowns and bridges

High-strength all-ceramic inlays

Metal, ceramic and fiber posts

### Advantages

- Twice the bond strength to dentin vs. other leading brands
- Up to twice the adhesive values to Zirconium Dioxide than other leading brands
- Quick and easy clean-up of excess material with optional tack cure
- Low film thickness for a precise marginal fit
- Self-adhesive: secure and quick bonding without primer or conditioner
- QuickMix syringe for optimal application and precise mixing



### Presentation

REF 1727 Pack 8.5 g QuickMix syringe

REF 1728 Set 3 × 8.5 g QuickMix syringe

REF 2189 mixing tips type 10 – 50 pack

### Technical Data

3-point flexural strength (after thermocycling**) (ISO 9917-2)	31.0 MPa
Compressive strength (1 month*) (ISO 9917)	111 MPa
Shear bond strength to human dentin (ISO/TS 11405)	11.3 MPa
Shear bond strength to human enamel (ISO/TS 11405)	9.1 MPa
Shear bond strength to ZrO2 (24 h*) (ISO/TS 11405)	11.8 MPa
Shear bond strength to lithium disilicate (24 h*) (ISO/TS 11405)	8.8 MPa
Shear bond strength to non-precious metal (ISO/TS 11405)	10.3 MPa
Film thickness (ISO 9917-2)	11.7 µm
Water solubility (ISO 7489)	0.36%
Working time (ISO 9917-2)	120 sec.
Setting time (ISO 9917-2)	4 min 30 sec.
Radiopacity (ISO 9917-2)	198 %Al
Fluoride release (60 d, 37 °C water storage)	662 ppm

### Meron Plus QM Clinical Case



Prepared tooth 11 with chamfer preparation to accommodate the crown



Zirconia crown on tooth 11 on the plaster model



Application of Meron Plus QM in the restoration



Insertion of the restoration



Short-term light-curing (tack curing)



Easy removal of excess material



Additional removal of excess material in the approximal areas using dental floss



Completed treatment

Source: Prof. Dr. Jürgen Manhart, Munich / Germany

## BrackFix®

Light-cured orthodontic bracket adhesive



### Indications

Direct attachment of orthodontic metal and ceramic brackets

### Advantages

- Optimal adhesive consistency provides stable positioning of the bracket on the tooth surface
- Fluorescent Technology reveals adhesive residues under UV light after bracket removal for easy identification
- Enables an easier, quicker and more precise residue removal step
- Light-cured to give practitioner greater control over the required working time
- Can be exposed to loads (chewing forces) immediately after polymerization

20 sec  
light-curing

Fluorescent  
Technology

### Presentation

REF 1205 Kit 2 × 4 g adhesive syringes,  
6 ml primer bottle, accessories

REF 1206 SE Kit 2 × 4 g adhesive syringe,  
40 primer SingleDose, accessories

REF 1208 Refill 6 ml primer bottle

REF 1207 Refill 2 × 4 g adhesive syringe

REF 1209 Refill 50 primer SE SingleDose,  
accessories

REF 2247 Single Tim application brushes –  
100 pack

REF 2315 mixing pallets – 20 pack

### BrackFix Application



Etching of enamel surface



Application of BrackFix Primer



Simple application of BrackFix Adhesive to bracket



Simple and secure positioning on the tooth



Tooth 8 (upper right central incisor) prior to polymerization and removal of excess adhesive



Under UVA light (for demonstration purposes)



Illumination with UVA light following removal of brackets



Controlled removal of BrackFix residues



Final check with UVA light: No adhesive residues remain

Source: Dr. Felipe Moura / Brazil

## Ufi Gel® SC

A-silicone based permanently soft chairside denture relining material in a 1:1 cartridge system



### Indications

Permanent soft relining for total and partial dentures

To relieve pressure from pressure spots

To dam the palatal vibrating line

In cases of flabby ridge and insufficient adhesion

To cushion sharp-edged alveolar processes

To support the healing process in implantology

### Advantages

#### In-Office

- Complete chairside relining within minutes in one appointment
- Extremely high adhesion between denture and relining material with a special adhesive
- Biocompatible, tasteless and odorless
- Esthetic stable color, shade adaptation effect

#### Lab

- Fewer working steps than conventional cold-curing products
- Only 1 minute processing of adhesive and short time period in the pressure unit
- Relining can be repaired immediately after setting and up to 14 days after initial relining

### Presentation

REF 2041 Kit 50 ml cartridge Ufi Gel SC, 10 ml adhesive, each 10 ml glazing base/catalyst, 10 mixing tips type 8, accessories

REF 2040 Refill 50 ml cartridge, 10 mixing tips type 8

REF 2029 Refill 10 ml Ufi Gel SC adhesive

REF 2047 Refill each 10 ml glazing base/catalyst

REF 2187 mixing tips type 8 – 50 pack

### Trimming disk:

REF 2049 trimming discs – 10 pack

**SC**  
self-curing

**auto**  
mix



## Ufi Gel® hard C

Direct hard denture relining material in a 1:1 cartridge based on composite technology



### Indications

Hard, permanent chairside relining  
 Direct and indirect relining  
 Total or partial relining  
 External relinings (extended care living facility, homes for the disabled, hospitals)  
 Extensions of denture margins  
 Repairs and enlargements  
 Adaptation layer by layer over the course of years

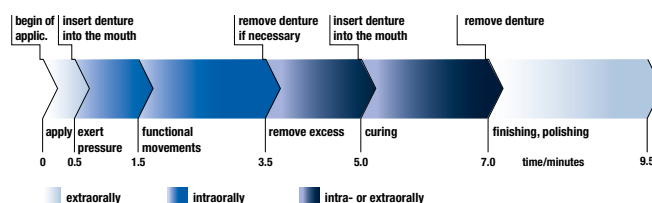
### Presentation

REF 2215 80 g cartridge, 10 ml adhesive, mixing tips type 8  
 REF 2218 Intro Kit 80 g cartridge, 10 ml adhesive, dispenser type 2, mixing tips type 8  
 REF 2216 Refill 80 g cartridge, mixing tips type 8  
 REF 2217 10 ml adhesive bottle  
 REF 2187 mixing tips type 8 – 50 pack  
 REF 2315 mixing pallets – 20 pack

### Advantages

- Complete chairside hard relining in 10–15 minutes
- MMA-free
- Biocompatible with a neutral taste and smell
- Low exothermic temperature (98.6° F)
- Bubble-free automix application ensures a smooth surface
- Esthetic and color stable
- Achieves the same hardness, finishing and cleaning as laboratory-processed relines
- Easy and time-saving working steps

### Hard chairside relining in only 10 minutes ...



SC  
self-curing

auto  
mix

### As simple as an impression



Apply adhesive



Apply Ufi Gel hard C



Functional movements



Remove excess

... then let denture full cure in the mouth.

## Fit Test® C & B

Control silicone to check the fit of prosthetic pieces



### Indications

For the precise control and fit of marginal gaps and adaptation of:

- crowns (full and partial)
- bridges
- inlays/onlays
- cast metal cores, crowns
- metal denture bases
- attachments and other secondary parts of dentures

### Advantages

- Fast diagnostic aid/tool for all restorative applications
- QuickMix syringe for easy and precise application
- Optimal blue color for metal and ceramic restorations
- Fast results due to short 45 sec. setting time
- Extremely tear resistant for complete and easy one-piece removal

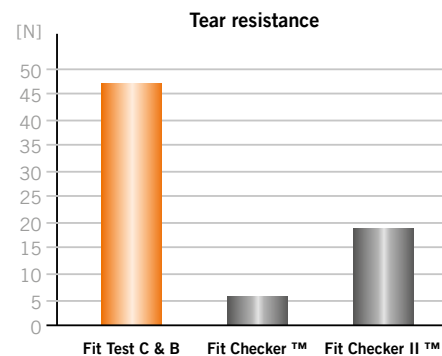
auto  
mix

### Presentation

REF 2095 5 ml QuickMix syringe,  
mixing tips type 9  
REF 2188 mixing tips type 9 – 50 pack

### Technical Data

Working time	max. 1 min 45 sec.
Setting time	45 secs. – 1 min 15 secs.
Tear resistance	48.5 N

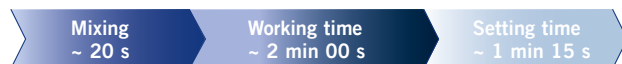


Source: VOCO GmbH in-house test analogue ASTN D-624-98  
VOCO is not the holder of the mentioned trade marks

### Time required [Fit Test C & B]



### Time required [Competitor A]



### Conventional wash material [Competitor B]



Situation after preparation



Direct application of Fit Test C & B



Seating and intraoral setting



Removal of the restoration



Non-optimal fit is visualized in the restoration ...



... and after removal of Fit Test C & B.

Source: Dr. Arne Kersting, Germany



# DIGITAL TECHNOLOGY

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# DIGITAL WORKFLOW



	Full Crown		Temporary Crown		Partial Crown		Inlay		Onlay
	Bridge		Temporary Bridge		Surgical Guide		Dentures		Casting
	Night Guards		Study Models		Model		Splint		

# Grandio blocs Universal

Resin Nano-Ceramic Hybrid CAD/CAM Block



## Indications

Crowns, inlays, onlays, veneers  
Implant supported crowns

## Advantages

- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- No firing or glazing required, reducing steps and saving time for true one-appointment dentistry
- Easy intraoral polishability, characterization and repair



Source: Dr. Felipe Moura, Brazil

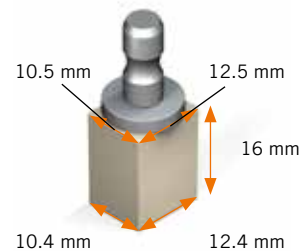
## Presentation

Shade	5 × Gr. 12 Low translu- cent (LT)	Shade	5 × Gr. 14L Low trans- lucent (LT)
A1 LT	REF 6003	A1 LT	REF 6018
A2 LT	REF 6004	A2 LT	REF 6019
A3 LT	REF 6005	A3 LT	REF 6020
A3.5 LT	REF 6006	A3.5 LT	REF 6021
B1 LT	REF 6007	B1 LT	REF 6022
C2 LT	REF 6008	C2 LT	REF 6023
BL LT	REF 6009	BL LT	REF 6024
Shade	5 × Gr. 12 High translu- cent (HT)	Shade	5 × Gr. 14L High trans- lucent (HT)
A1 HT	REF 6012	A1 HT	REF 6027
A2 HT	REF 6013	A2 HT	REF 6028
A3 HT	REF 6014	A3 HT	REF 6029
A3.5 HT	REF 6015	A3.5 HT	REF 6030

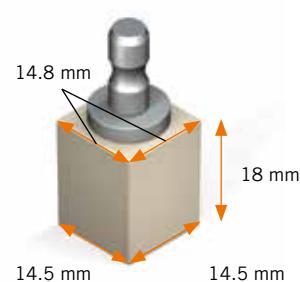
## Technical Data

Compressive strength	530 MPa analog ISO 9917
Biaxial Flexural strength	333 MPa
Modulus of elasticity	18.28 GPa
Thermal expansion coefficient	$16.0 \cdot 10^{-6} \text{ K}^{-1}$
Filler content	86% by weight
Radiopacity	308 %AI
Water absorption	13.6 $\mu\text{g}/\text{mm}^3$ analog ISO 4049
Water solubility	< 0.1 $\mu\text{g}/\text{mm}^3$ analog ISO 4049
Vickers hardness (HV)	154.6
Two-body-wear (specimen)	59.9 $\mu\text{m}$
Two-body-wear (antagonist)	98.1 $\mu\text{m}$

## Gr. 12



## Gr. 14L



## Grandio blocs PlanMill®

Resin Nano-Ceramic Hybrid CAD/CAM Block



### Indications

Crowns, inlays, onlays, veneers  
Implant supported crowns

### Advantages

- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- No firing or glazing required, reducing steps and saving time for true one-appointment dentistry
- Easy intraoral polishability, characterization and repair



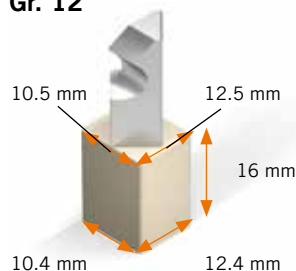
### Presentation

Shade	5 × Gr. 12 Low trans- lucent (LT)	Shade	5 × Gr. 14L Low trans- lucent (LT)
A1 LT	REF 6153	A1 LT	REF 6168
A2 LT	REF 6154	A2 LT	REF 6169
A3 LT	REF 6155	A3 LT	REF 6170
A3.5 LT	REF 6156	A3.5 LT	REF 6171
B1 LT	REF 6157	B1 LT	REF 6172
C2 LT	REF 6158	C2 LT	REF 6173
BL LT	REF 6159	BL LT	REF 6174
Shade	5 × Gr. 12 High trans- lucent (HT)	Shade	5 × Gr. 14L High trans- lucent (HT)
A1 HT	REF 6127	A1 HT	REF 6177
A2 HT	REF 6128	A2 HT	REF 6178
A3 HT	REF 6129	A3 HT	REF 6179
A3.5 HT	REF 6130	A3.5 HT	REF 6180

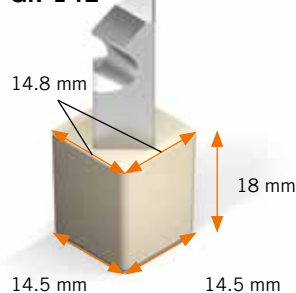
### Technical Data

Compressive strength	530 MPa analog ISO 9917
Biaxial Flexural strength	333 MPa
Modulus of elasticity	18.28 GPa
Thermal expansion coefficient	$16.0 \cdot 10^{-6} \text{ K}^{-1}$
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Water solubility	< 0.1 $\mu\text{g}/\text{mm}^3$ analog ISO 4049
Vickers hardness (HV)	154.6
Two-body-wear (specimen)	59.9 $\mu\text{m}$
Two-body-wear (antagonist)	98.1 $\mu\text{m}$

### Gr. 12



### Gr. 14L



Source: Dr. Felipe Moura, Brazil

## Grandio disc

Nano-ceramic hybrid CAD/CAM disc

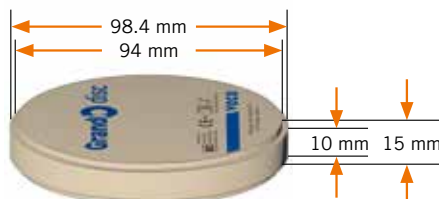


### Indications

Crowns, inlays, onlays, veneers, implant supported crowns

### Advantages

- Multi-shade “invisible layer technology” for high esthetics
- No firing required for true one appointment dentistry
- No shrinkage allows for 20% more restorations per disc than zirconia
- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- Easy intraoral polishability, characterization and repair



Technical Data	
Compressive strength	530 MPa analog ISO 9917
Biaxial Flexural strength	333 MPa
Modulus of elasticity	18.28 GPa
Thermal expansion coefficient	$16.0 \cdot 10^{-6} \text{ K}^{-1}$
Filler content	86% by weight
Radiopacity	308 %AI
Water absorption	13.6 $\mu\text{g}/\text{mm}^3$ analog ISO 4049
Water solubility	< 0.1 $\mu\text{g}/\text{mm}^3$ analog ISO 4049
Vickers hardness (HV)	154.6
Two-body-wear (specimen)	59.9 $\mu\text{m}$
Two-body-wear (antagonist)	98.1 $\mu\text{m}$



### Presentation

Shade	Low trans-lucent (LT) Ø 98.4 mm, 15 mm	Shade	High trans-lucent (HT) Ø 98.4 mm, 15 mm
A1 LT	REF 6050	A1 HT	REF 6057
A2 LT	REF 6051	A2 HT	REF 6058
A3 LT	REF 6052	A3 HT	REF 6059
A3.5 LT	REF 6053	A3.5 HT	REF 6060
B1 LT	REF 6054		
C2 LT	REF 6055		
BL LT	REF 6056		
Shade	MultiColor (MC) Ø 98.4 mm, 15 mm		
A1 MS	REF 6216		
A2 MS	REF 6217		
A3 MS	REF 6218		
A3.5 MS	REF 6219		
B1 MS	REF 6220		
C2 MS	REF 6221		



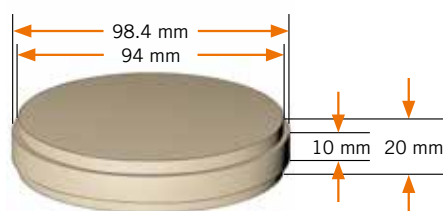
## Structur® CAD

CAD/CAM Composite for Long-term Temporary Crown & Bridges



### Indications

Temporary bridges spanning up to two pontics  
Temporary abutment crowns  
Temporary crowns



### Advantages

- Composite based for higher strength and esthetics
- Temporaries last for up to three years (1 year in CAN)
- High gloss, shade stability and natural fluorescence
- Excellent edge stability and fracture resistance
- Customizable and repairable with composite
- No need to use an MMA primer
- Economical manufacturing of temporaries

### Presentation

Shade	Disc Ø 98.4 mm, 20 mm
A1	REF 6071
A2	REF 6072
A3	REF 6073
Shade	Block 5 × No. 40L
A1	REF 6076
A2	REF 6077
A3	REF 6078



## CediTEC® Adhesive

Adhesive cementation system for denture teeth to denture bases



NEW

### Indications

Luting of prefabricated prosthetic teeth and CAD / CAM-produced individual teeth and tooth sections in CAD / CAM-produced denture bases

Cementation of prosthetic teeth in the scope of a repair or extension

auto  
mix

### Advantages

- Automix direct application
  - saves time
  - avoids air bubbles
  - prevents mixing errors
  - always perfect consistency
- Easy add-ons possible
- Compatible with other conventional PMMA materials

### Presentation

REF 6082 Set cartridge 80 g CediTEC Adhesive, bottle 4 ml CediTEC Primer, accessories  
REF 2202 Mixing tips type 20, 50 pcs.  
REF 2245 Easy Brush, application brushes, 50 pcs.



## CediTEC® DT Denture Teeth

CAD / CAM composite for denture teeth



NEW

### Indications

Prosthetic teeth and tooth sections up to complete dental arches for removable dentures



### Advantages

- Composite Disc has multiple advantages over PMMA
  - Higher strength and durability
  - Translucency for better esthetics
  - Repairable
  - Easy characterization without MMA primer
  - Effortless polishability

### Presentation

Shade	Disc ø 98 mm, 20 mm
A1	REF 6085
A2	REF 6086
A3	REF 6086
BL	REF 6087





## CediTEC® DB Denture Base

High-impact PMMA for the fabrication of denture bases for removable dentures



### Indications

Removable denture base



### Advantages

- PMMA with high impact resistance and strength for a long wearing period
- High-quality denture bases, reproducible at any time
- Three shades for esthetic results
- Very good polishability – individualization possible at any time

### Presentation

Shade	Disc ø 98 mm, 30 mm
pink	REF 6195
dark-pink	REF 6196



## V-Print® dentbase

Light-curing resin for the generative production of denture bases for removable dentures



### Indications

Removable denture bases



### Advantages

- Chameleon effect to match the gingiva with only one shade
- No sedimentation – therefore, no shaking or “rolling” prior to use
- Biocompatible with FDA 510k clearance
- Compatible with all leading relining materials
- High green strength for safe removal from the building platform

### Presentation

REF 6048 Bottle 1,000 g pink
------------------------------





## V-Print® DT

3D print resin for highly esthetic permanent denture teeth



### Indications

Permanent denture teeth



### Advantages

- **Highly-filled printing material – for permanent fracture-resistant results**
- **Excellent physical properties:**
  - flexural strength 60% as high as PMMA for durability
  - high wear resistance for long wearing time
  - low water absorption and solubility for mechanical stability
  - discoloration resistant – for long-lasting esthetics
- **Natural fluorescence** – for high esthetic demands

### Presentation

REF 6904	Bottle 500 g A1
REF 6905	Bottle 500 g A2
REF 6906	Bottle 500 g A3
REF 6908	Bottle 500 g B1

- **Easy to process and polish**
- **Composite printing material** – quick to characterize, repair or add-on with flowable composite or resin stain

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® splint comfort

FDA 510k licensed biocompatible 3D print resin to produce clear thermo-flexible therapeutic splints, aligners and night-guards



### Indications

- Therapeutic splints
- Patient-matched night guards/splints
- Auxiliary parts and functional parts for diagnostics



### Advantages

- High flexural strength and excellent wear resistance allow for devices as thin as 1 mm
- Thermo-flexibility, biocompatibility, odorless and neutral flavor increases patient acceptance
- Extremely fracture resistant and durable
- Clear-transparent, easy to polish and color stable for excellent esthetics
- FDA 510 clearance

### Presentation

REF 6126	Bottle 1,000 g clear
----------	----------------------

- No sedimentation – therefore, no shaking or “rolling” prior to use
- Validated for 3D printers from Asiga, Dental Wings, RapidShape, Microlay, Shera, Straumann and VOCO

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® splint

Material for 3D printing of splints, night-guards and other diagnostic parts



### Indications:

Production of:  
Therapeutic splints  
Patient-matched night guards/splints-  
Auxiliary parts and functional parts for  
diagnostics



### Advantages

- FDA 510k cleared
- Biocompatibility and neutral flavor ensure high level of patient acceptance
- Esthetically pleasing clear-transparent results
- Rigid with high flexural strength for durable orthodontic objects
- Easy to polish and stain resistant

### Presentation

REF 6044 Bottle 1,000 g clear

- No sedimentation – therefore no shaking or “rolling” prior to use
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® c&b temp

3D print resin for highly esthetic long-term temporaries



Coming Soon  
to Canada\*



### Indications

US: Long-term temporaries like crowns, bridges and mock-ups

CAN: Temporaries like crowns, bridges and mock-ups



### Advantages

- Highly-filled 3D printing material – for strong temporaries
- Excellent physical properties:
  - high flexural strength and modulus of elasticity for stable temporaries
  - high abrasion resistance for long wearing time
  - low water absorption and solubility for mechanical stability
  - discoloration resistant – no discoloration with ong wearing time
- Natural fluorescence – for high esthetic demands
- Easy to process and polish

### Presentation

REF 6897 Bottle 500g, Shade A1  
 REF 6898 Bottle 500g, Shade A2  
 REF 6899 Bottle 500g, Shade A3  
 REF 6900 Bottle 500g, Shade A3.5  
 REF 6901 Bottle 500g, Shade B1  
 REF 6902 Bottle 500g, Shade BL (Bleach)

- Composite printing material – quick to characterize or adapt.

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® SG

Material for 3D printing transparent surgical guides



### Indications

Dental drilling templates



### Advantages

- Autoclavable at 250 °F/134 °C
- Optimal flow properties
- High precision for optimal fit
- Excellent green-state stability, so not subject to distortion
- High flexural stability
- Biocompatible
- Neutral flavor

### Presentation

REF 6043 Bottle 1,000 g clear

- No sedimentation – therefore no shaking or “rolling” prior to use
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® Try-In

Light-curing resin for the generative production of try-ins for prosthetics



NEW

### Indications

Try-ins for total and partial prosthetics  
Transfer and grinding templates  
Correction impressions and occlusal impressions



### Advantages

- Verification and possibility to assess the fit, occlusion, functionality, phonation and esthetics before the production of prosthetics
- Biocompatible
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.
- No sedimentation – therefore no shaking or “rolling” prior to use

### Presentation

REF 6049 Bottle 1,000 g beige

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® cast

Light-curing resin for the generative production  
of burn-out objects for casting and pressing processes



### Indications

Production of objects which can be burned out without leaving any residues for casting processes and press ceramics



### Advantages

- Reproducible – simple duplication prior to casting
- Quick finishing process – precisely printed objects allow for high quality of reproduction
- High form and edge stability – reliable checking of occlusion and lateral movements
- Fast and instrument-saving finish already at green state
- High compatibility – can be used with commercially available phosphate-bonded investment materials

### Presentation

REF 6045 Bottle 1,000 g blue

- Restorations free of impurities – V-Print cast burns without residue
- No sedimentation – therefore no shaking or “rolling” prior to use
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® tray

Light-curing resin for the generative manufacture of individual trays,  
base plates and occlusal registrations using CAD / CAM technology



### Indications

Individual impression and function trays  
Bases for bite templates and wax assemblies for full dentures  
Occlusal registrations



### Advantages

- Timesaving – printable in high layer thicknesses (up to 200 µm)
- Distortion-free impressions – thanks to the great strength
- Universal – suitable for all types of impression material
- Rapid and efficient – object printing including the forming of functional peripheries, retention elements and gaps for implant impressions.
- Biocompatible

### Presentation

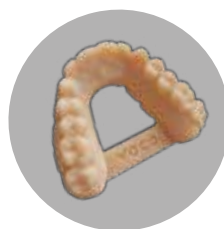
REF 6047 Bottle 1,000 g blue

- No sedimentation – therefore no shaking or “rolling” prior to use
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to  
[www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® model 2.0

Material for 3D printing models



### Indications

3D printing of crown and bridge models and ortho models



### Advantages

- Fast and Precise - excellent fit, even with 100 micron layers
- Suitable for overnight print jobs – does not need to be continually mixed to avoid sedimentation
- Easily trimmable without undesirable changes (e.g. caused by heat from instruments)
- Scratch-resistant hard surface for trial fitting without deforming

### Presentation

REF 6042 Bottle 1,000 g beige

- Heat resistant - can be used with vacuum thermoforming for retainers and aligners.
- No sedimentation – therefore no shaking or “rolling” prior to use
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## OtoFlash

Post-curing unit for light-curing resin materials



### Advantages

- Short curing times as a result of two underside flash bulbs
- Reliable curing due to intensive light output in a wavelength range of 280–580 nm
- Available in two models: OtoFlash Classic and OtoFlash with Protective Gas Line (gas not provided, should be obtained locally)

### Presentation

REF 9133 OtoFlash  
REF 9130 OtoFlash – with connection for inert gas  
REF 9132 Tray

### Product overview

The Otoflash G171 is a flash-light polymerization device for the final curing of 3D printed appliances. It has two flash bulbs at the bottom that are operated at a frequency of 10 flashes per second, making it one of the fastest post-curing units on the market. When flashing, the flash bulbs generate highly intensive light radiation, which ranges from 300 to 700 nm.

Because of this extremely concentrated light radiation, the printed parts come to their final hardness more thoroughly, and thus the physical values are enhanced. In addition, this concentrated light is responsible for reducing the residual monomer count, meeting biocompatibility demands for parts that will be used intraorally.

It is available with a protective nitrogen gas port, which when connected to a nitrogen source, will displace oxygen in the curing chamber, thereby reducing the exposure of the printed pieces to oxygen. This feature is to prevent the formation of an oxygen-inhibited layer, which can weaken the final result and quality of the printed part.

Nitrogen source should be obtained locally.

### Technical Specifications

- Flash frequency: 10 flashes per second
- Dimensions of polymerization chamber: 120 × 120 × 50 mm / 4.72 × 4.72 × 1.97 in
- Rated voltage: 100, 115, 230 volt AC, adjustable by switch
- Power input: 250 watt
- Spectral distribution: 280–700 nm
  - maximum between 400 and 500 nm
- Digital timer: adjustable from 1 to 9.999 flashes
- Dimensions: 310 × 310 × 140 mm / 12.2 × 12.2 × 5.5 in
- Weight: 6 kg / 13.3 lbs

# TIPS, LAB, DISPENSERS, ETC.

## Cleaning Agent/Custom Trays

Traypurol tabs	78
Individo Lux	78
Profibase	78

## Devices & Disposables

Mixing Pallet, Pele Tim,	
Dispenser, Applicator, Activator	79
Mixing Tips	80
Intraoral tips	80
Tims, Brushes,	
Polishing Disc, etc.	81

## Individo® Lux

DE Vorgeformte individuelle Abformplatten, fotopolimerisierbar	77
GB Preformed individual impression trays, light curing	77
FR Porte-empreintes individuels prémodèles groupés, polymérisables	77
ES Cubetas de impresión individuales premodeladas, fotopolimerizables	77
PT Moldeiras individuais pré-moldadas, fotopolimerizáveis	77
VOCO GmbH • Anton-Flettner-Str. 13 • 74183 Krefeld	
VC 52 002400 E0 1111 18	



## Traypurol tabs

Activated tabs for cleaning impression trays and instruments



### Advantages

- Quickly removes alginates and cements
- Completely dissolves in water without scrubbing
- Dosing is simple
- 2 tabs per quart of cleaning solution
- Biodegradable, pH-neutral
- Gentle to material, safe for all rust-proof metals (including aluminum) and plastics
- Solution is effective for up to 72 hours

### Presentation

REF 2355 Pack – 50 tabs



## Individo Lux

Light-curing custom tray material in two contoured forms for maxillae or mandibles



### Advantages

- Very stable and non-sticky trays
- Peppermint flavor and pleasant smell
- Short curing time under halogen light devices or UVA-light
- Available in blue or transparent shade

### Presentation

Blue opaque  
 REF 2402 Pack 50 maxillae  
 REF 2403 Pack 50 mandibles  
 Blue transparent  
 REF 2408 Pack 50 maxillae  
 REF 2409 Pack 50 mandibles

## Profibase

Light-curing pink-transparent base plates for easy and economical production of wax models



### Advantages

- Stable and pressure-proof
- Tissue-like shade increases acceptance by dentists and patients
- Peppermint flavor and pleasant smell
- Short curing time under halogen light devices or UVA-light

### Presentation

REF 2111 Set 25 maxillae, 25 mandibles  
 REF 2112 Pack 50 maxillae  
 REF 2113 Pack 50 mandibles

## Mixing Pallet



### Presentation

REF 2315 Mixing Pallets – 20 pack

## Pele Tim



Available  
shapes  
and  
sizes



Not available  
in Canada!



**Special foam pellets for applying medical products in liquid or paste form without exerting any pressure. Suitable for painting infected alveoli and use as an endodrain**

### Presentation

REF 2250 No. 0, mini, ø 3 mm,  
approx. 3,000 pellets  
REF 2252 No. 1, small, ø 4 mm,  
approx. 3,000 pellets  
REF 2253 No. 2, medium, ø 5 mm,  
approx. 1,000 pellets  
REF 2254 No. 3, large, ø 8 mm,  
approx. 500 pellets  
REF 2255 No. 4, V-shaped, 6 x 8 mm,  
approx. 500 pellets

## Dispenser



### Presentation

REF 2158 type 2 for Structur 3, Structur Premium,  
Structur 2 SC, Provicol C, Ufi Gel SC,  
Registrado X-tra, V-Posil (1:1/2:1)  
REF 2259 type 3 for Rebilda DC (DS25 1:1)

## AC Applicator



Type 1

Type 2

**Type 1: Forceps-type applicator to directly apply the contents of VOCO application capsules (AC) into the cavity**

**Type 2: Ergonomically designed applicator to dispense the contents of the VOCO application capsules (AC) directly into the cavity**

### Presentation

REF 2331 1 AC Applicator Type 1  
REF 2334 1 AC Applicator Type 2

## AC Activator



**Device to activate VOCO application capsules (AC)**

### Presentation

REF 9300 1 AC Activator

## Caps Gun



**Low force composite dispenser  
VisCalor Dispenser: Preheating  
dispenser for VisCalor/VisCalor bulk,  
and all other VOCO composites  
packaged in a capsule**

### Presentation

REF 9301 Caps Dispenser compatible with all  
VOCO composite, ORMOCER, nano-  
ORMOCER, provisional composite  
and compomer capsules and VOCO  
Retraction Paste

REF 9143 VisCalor Dispenser – Preheating device

## Mixing Tips



REF 2185 mixing tips type 6 for Structur 3, Structur Premium, Structur 2 SC, Provicol C – 50 pack



REF 2191 mixing tips type 11 for Rebilda DC QM syringes, Bifix QM, Fit Test C&B with Quick Up method, Grandio® Core Dual Cure – 50 pack



REF 2195 mixing tips type 15 with intraoral tips type 1 for Bifix SE – 50 pack



REF 2202 mixing tips type 20 (Die Silicone) – 50 pack



REF 2203 mixing tip type 30 for V-Posil Heavy Soft Fast, Mono Fast and Putty Fast 380 ml Cartridge - 50 pack



REF 2186 mixing tip type 7 for V-Posil Light Fast and X-Light Fast – 50 pack



REF 2192 mixing tips type 12 for Rebilda DC in cartridge – 50 pack



REF 2196 mixing tips type 16 for V-Posil Heavy Soft Fast, V-Posil Mono Fast, and Registrado X-tra/Clear/Scan for intraoral tips type 2 – 50 pack OR type 3 – 50pk



REF 2187 mixing tips type 8 for Ufi Gel SC, Ufi Gel hard C – 50 pack



REF 2189 mixing tips type 10 for Provicol QM, Structur 3 (in the QuickMix syringe), Structur 2 (in the QuickMix syringe), Meron Plus QM, Provicol QM / QM Plus / QM Aesthetic, Quick Up – 50 pack



REF 2194 mixing tips type 14 for Bifix SE – 50 pack



REF 2199 mixing tip type 19 (bendable) for Rebilda DC



REF 2188 mixing tips type 9 for Fit Test C & B, Bifix Temp – 50 pack

## Intraoral Tips



REF 2146 pack type 41 for Ionoseal, Grandio/SO Flow, Admira Fusion Flow, Calcimol LC, etc. – 100 pack



REF 2147 pack type 45 for Amaris Gingiva, GrandioSO Light Flow, Grandio Seal – 100 pack



REF 2148 pack type 46 for GrandioSO Heavy Flow, x-tra base, Admira Fusion x-base, Clip Flow – 100 pack



REF 2144 pack type 44 for Amaris Flow, Admira Flow, GrandioSO Light Flow, Quick Up LC – 100 pack



REF 2131 pack type 47 for Calcicur – 30 pack



REF 2139 pack type 1 for Rebilda DC QM syr., Bifix SE, Bifix QM, Fit Test C & B, direct root canal application – 50 pack



REF 2140 pack type 2 for Registrado X-tra, Registrado Clear – 50 pack



REF 2141 pack type 3 for Rebilda DC in cartridge, V-Posil Light Fast and X-Light Fast – 50 pack



REF 2142 pack type 4 for Rebilda DC QM syringes, Bifix QM, Grandio Core Dual Cure – 50 pack



REF 2132 pack type 48 for Vococid – 50 pack



REF 2133 pack type 6 for V-Posil Mono Fast – 50 pack



REF 2310 pack type 42 for Vococid – 30 Pack

**Endo Tim**

REF 2246 Brushes for applying bonding agents and varnishes into the root canal – pack 50 Endo Tim to be used in the root canal – 50 pack

**Single Tim**

REF 2247 Application brushes for Futurabond U, Admira Protect and Ceramic Bond – 100 pack

**Easy Brush**

REF 2245 Application brushes for Profluorid L, Profluorid Varnish and Easy Glaze – 50 pack

**Polishing Discs**

REF 2049 trimming discs – 10 pack for Ufi Gel SC without mandrel

**VisCalor® Dispenser Replacement Sleeves**

REF 9145 Protective sleeves for Viscolor Dispenser – 100 pack

**VisCalor® Dispenser Changeable Top**

REF 9144 Changeable tops – 2 pcs

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