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VinciSmile®

- Versatile Cementation Options
- Simplified Restoration Workflow
- Reliable High-esthetics Results

TopCEM

Indirect Restorative Solutions

A fully aligned and all-round system designed to simplify your dental process

With indirect dental restorations, the fabrication occurs outside of the mouth. Examples include veneers, crowns, bridges, implants, inlays, and onlays. Although the procedures require more work (such as a dental impression, tooth preparation, fabrication, and a temporary veneer, bridge, or crown), they offer restoration options for larger areas of damage and decay.

Furthermore, indirect restorations can be used to correct a number of cosmetic concerns, increase the aesthetic appearance of your teeth or provide a more stable, longer-lasting solution when the damage is severe or extensive.

VinciSmile offers you a fully aligned and all-round system designed to simplify indirect restoration workflow and elevate your success in dental practice.

VinciSmile TopCEM Indirect Restorative Solutions

1. Dental Impression
2. Restoration Selection
3. Pre-treatment
4. Adhesive Application
5. Cementation
6. Protection

Impression taking, as the very first step in indirect restorative workflow, holds the key to a successful restoration result. As digital dentistry is underway, digital scanning is the better choice for clinicians.
Digital denture workflows offer benefits from digital scanning accuracy, which enables technicians to create dentures with better fit and retention.
Intraoral scanning, as the very first step in full digital workflow, helps improve patient care and takes dental clinics to the next level.

i-Vinci X Intraoral Scanner

SUPERIOR CHOICE FOR DIGITAL DENTAL SOLUTION

i-Vinci Software Highlights

·Undercut area analysis ·Align
·Distance calculation · Lock area

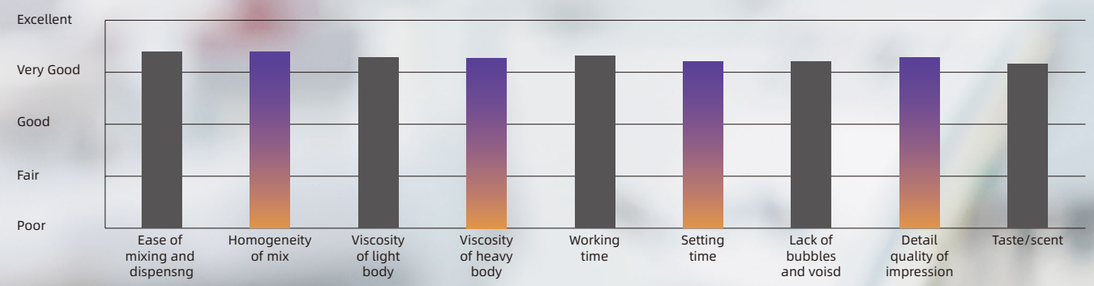
- AI-enabled Scanning: supports high-precision 3D modeling, accurately restores oral structure, and improves scanning efficiency and accuracy.
- Intelligent operation: built-in AI algorithm, automatically identifies structures such as teeth and gums, and reduces manual operations.
- Automatic model refining: automatically refines missing or incomplete areas during scanning to ensure data integrity.
- AI health report: AI technology generates oral health reports, automatically analyzes caries, periodontal, occlusal problems, etc., and helps formulate personalized treatment plans.
- Model editing: Powerful digital model editing function helps doctors easily adjust, edit and optimize scan data.
- Orthodontic simulation: Visualize treatment results through digital orthodontic simulation, help patients and doctors participate in decision-making together, and enhance treatment confidence.

PERFIT VPS Impression Materials.

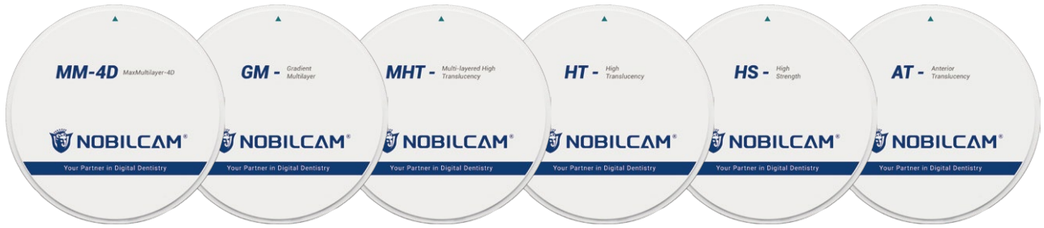
Professional precision for all indications.

- Available in 4 viscosities: Heavy, Regular, Light, and Putty
- Available in 2 curing speeds: Fast set, Normal set
- Used to make final impressions for all indirect restorative procedures, including: crown, bridge, inlays and onlays, implantology, orthodontics, removable appliances

Evaluation Summary:



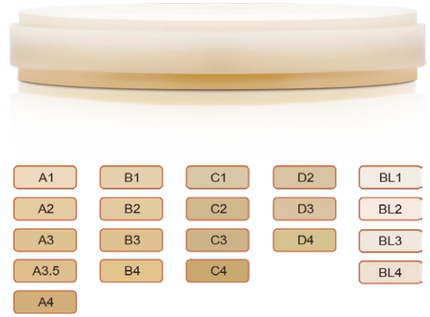
- NOBILCAM offers different types of zirconia discs to cover every dental applications from veneers to long-span bridges.



Multilayer PMMA

The multilayer PMMA with shade gradient from dentin to incisal is suitable for natural and long-term temporary restorations.

- Seamless shade gradient makes the prostheses more natural and artistic.
- Highest esthetics due to accurately matched VITA 16 shades and BL shades.
- High-quality acrylic for long-term temporary restorations with a wearing time of up to 12 months.



Monolayer PMMA

- Mills purely and polishes easily
- Easy to operate, stable and efficient
- Proven biocompatibility
- Accurately matched in 23 shades

Pink PMMA

- Perfectly suitable for making digital denture base
- Natural gingival appearance
- Low moisture absorption
- high strength

Clear PMMA

- Crystal clear surface
- High stain-resistance
- Low water absorption
- Burn out without any residue

- **Indications**

Venners	*Inlays&onlays*	*Coping& abutment*	*Anatomically reduced crowns*	*Full anatomy anterior crown*
Anterior dental bridge (less than 3 units)	*Full anatomy posterior crown*	*Poterior 3-unit bridge*	*Poterior 3-unit to multi-unit bridge*	*Full-arch bridge*

Dental crowns are caps that cover a tooth or a dental implant. Dentists often recommend crowns as a way to support broken, weak, or misshapen teeth.

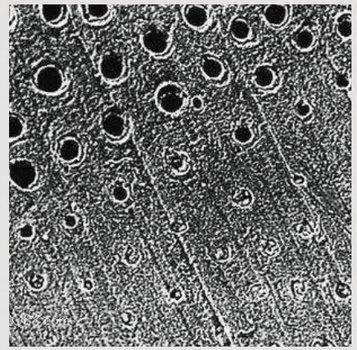
NOBILCAM Zirconia Blocks are a high-performance dental material for making crowns and bridges. It is durable, strong and bio-compatible, making it an ideal choice for dental restorations.

A thorough pre-treatment, which includes cleaning, etching, drying steps, can lead to dramatic changes in practice of direct restorations.
Acid etching is routinely used to etch and roughen dental surfaces, and produce a rough irregular surface with large surface areas. Pre-treatment step effectively enhances bonding strength and the retention of composite restoratives.

P-Etchant Phosphoric Acid Etching Gel

37% concentration for strong bond

· Eliminate the surface dirt and fouling from enamel and dentin
· Roughen the enamel and dentin surface effectively.
· Fully open dentine tubules, which is easier for adhesive to penetrate and form resin protrusion.
· Bright blue color can be easily differentiated from the tooth.
· Consistent material thickness ensures simple and effective application.
· It rinses perfectly, as it rinses off easily without leaving residue.
· Ideal viscosity, which makes precision placement easier and superior control.



Etching Techniques

Self-etch
(No phosphoric acid)

Selective etch
(Phosphoric acid on enamel only)

Total etch
(Phosphoric acid on enamel and dentin)

· Self-etch: Take away some of the technique sensitivity of etching dentin with phosphoric acid.
· Selective-etch: Allow a deep acid etch on the enamel margins while maintaining the benefits of a self-etch product, including low postoperative sensitivity and moisture tolerance on dentin.
· Total-etch: Ensure a thorough etch pattern on the surface of the enamel and the removal of the smear layer on dentin.

Silane Coupling Agents

· Which are used to promote adhesion between dissimilar materials. They are good at promoting adhesion in silica-based materials such as porcelain, non-silica-based restorative materials such as zirconia, metals and metal alloys as well.

·A solution to this problem may be surface conditioning of the restorative materials. Currently, a widely used surface-conditioning method in dentistry is tribochemical silica coating. After this treatment, a silica layer is formed on the surface so that the silane coupling agent can react chemically to form a durable bond with non-silica-based materials.

Hydrofluoric Acid

· Which is used to etch the internal surface of the ceramic restoration. This acid increases surface relief in micromechanical bonding of resin cement to ceramic restoration. Pre-treatment conditioning with HF in feldspathic ceramic and leucita reinforced glass-ceramic will result in an internal surface with white-opaque appearance.

TopCEM Ceramic Primer

Ceramic Coupling Agent

· Suitable for a variety of restoration interfaces, including glass ceramics (feldspar ceramics, leucite ceramics, lithium disilicate ceramics, fluoroapatite ceramics, zirconia-enhanced lithium silicate glass ceramics, etc.), oxide all-ceramics (Zirconium oxide, alumina), metal/alloy, etc.;

· Simple operation, easy to apply, compatible with light curing or dual curing resin adhesive

· Significantly improve the bonding strength between the resin cement and the restoration

HF-Etchant Hydrofluoric Acid Etching Gel

9% concentration

· Used for etching pretreatment of restoration adhesion surface made of glass ceramics, such as Changbai stone, leucite ceramics, lithium disilicate ceramics, fluorapatite ceramics, zirconia enhanced lithium silicate glass ceramics and so on.

· It makes the restoration surface more rough and improved adhesion

· It enhances mechanical interlocking force.

Adhesive offers additional strong bonds to the final direct restoration. There are too many options to choose, but universal adhesive is the top recommendation.

Simple, Efficient, Versatile.....

HugeBond Universal is the latest innovation with one-bottle technique and highly reliable bonding strength. With no need of a separate primer or complicated bonding process, universal adhesive maximizes efficiency in practice by offering stronger and long-lasting bonding result, and is widely used in both direct and indirect restorations.

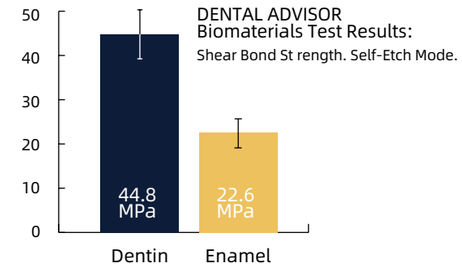
HugeBond Universal Technical Parameters		
Bonding Strength	Self-etched dentin/MPa	30.4
	Self-etched enamel/MPa	25.4
	Etched enamel/MPa	30.3
pH		2.7
Film thickness		<3μm

New Flip-Open cap design for single-hand operation.

Special nozzle design for accurate amount control.

DENTAL ADVISOR ++++

27 CLINICAL EVALUATORS
660 TOTAL USES
86% CLINICAL RATING



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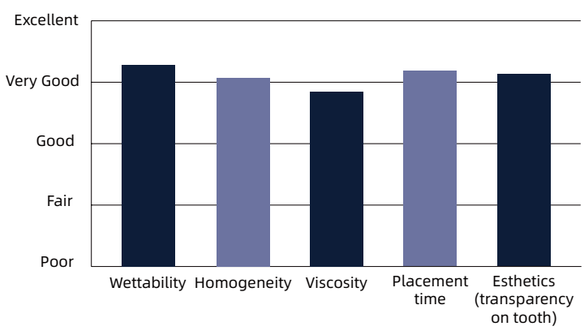


*Data from Dental Advisor

HugeBond Universal FliPro

MDP monomer | Single component | 8th genertaion

Used in self-etch, total-etch and selective-etch procedures
• Compatible with light-cured, dual-cured, and self-cured cements
• Reliable bonding in both direct and indirect restorations
• Formulated with MDP monomer that enhances chemical adhesion to direct and indirect restorations, such as dentin, enamel; composite, metal, and zirconia, etc.

The cementation procedure is considered to be the most important stage of fixed prosthodontics, while the correct selection of cement is the guarantee of successful restoration which is conditioned by the its durability. Over the recent years, numerous cementing substances have been introduced to the dental practice that differ greatly from conventional cements with their properties and application methods and that is why even experienced dentists often have certain difficulties in the variety of cements to choose the one that is right for each clinical case.

The selection of cement depends on a number of factors, such as the type of resorption substance, the shape of prepared tooth, the possibility to isolate the area, subject to cementation in the oral cavity as well as the patient's esthetic requirements.

VinciSmile, as an all-rounder clinical solution provider, motivated by the innovation, creates 4 kinds of cements - TopCEM cement system to empower clinics in practice.

PTHP TECHNOLOGY

Vetted in a series of long-term trials, we have rolled out PTHP, an innovative redox self-stabilizing technology, to the whole dentistry. By controlling the oxidation state, PTHP core technology not only maintains the long-term stability of the physical and chemical properties, but also significantly reduces the impact of other factors, such as high temperature and long storage time.

TopCEM Dual Cure Resin Cement, combined with HugeBond Universal/ Universal FliPro Adhesive, provides an impressive bonding result. TopCEM DCRC and HugeBond Universal deliver a fully aligned bonding system which streamlines practice and simplifies bonding workflows effectively.

Technical Parameter

Flexural Strength/ MPa	123MPa
Film thickness/μm	13μm
Water Absorption/ μg/mm³	16μg/mm³
Solubility/ μg/mm³	0.6μg/mm³
Working Time	≥2min30sec
Curing Time	2min40sec~ 3min10sec

Bonding Strength(MPa)

Cement Selection Guidelines

	TopCEM Dual Cure Resin Cement*	TopCEM Vigor SA Self-Adhesive Resin Cement	TopCEM Veneer Cement	TopCEM Resin Modified Glass Ionomer Cement
Crowns	++	++	-	++
Inlays, onlays	++	+	-	+
Veneers	+	-	++	-

+ + Highly recommended + Recommended - Not indicated

Bonding Strength	★★★★★	★★★★	★★★★	★★★
Moisture Tolerance	★★★★	★★★★	★★★★	★★★★★
Esthetics	★★★★★	★★★★	★★★★★	★★★

TopCEM Dual Cure Resin Cement

Universal compatibility

Product Highlights

· Dual cure feature offers flexible options
· High flexural strength of over 100 MPa
· Low film thickness, solubility and water absorption
· 3 opacity and 7 shades available，meet individual esthetic needs
· Over 400% radiopacity

TopCEM-Veneer

Light Cure Veneer Cement

Product Highlights

· 5 shades and 3 opacity options
· Light curing ensures colour stability
· High bonding strength, low water absorption and solubility, and impressive marginal fitness
· Additional try-in gel ensures appropriate cement shade to fit in natural teeth

COMING SOON

TopCEM Vigor SA

Self-Adhesive Resin Cement

Product Highlights

· Provides a time-saving one-step cementation solution, no need of adhesive
· Ultra-low film thickness about 8μm, ensures strong luting result
· High flexural strength over 100Mpa and low water absorption and solubility

TopCEM-RMGI

Resin Modified Glass Ionomer Cement-Luting

Product Highlights

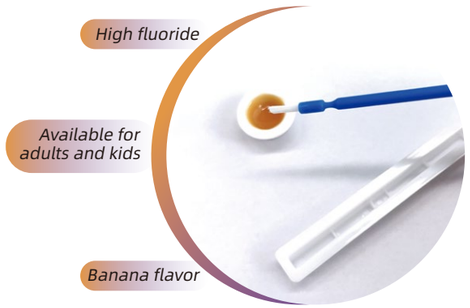
· Self-adhesive luting cement
· Higher bond, compressive and flexural strengths
· Low film thickness

Pro Shield

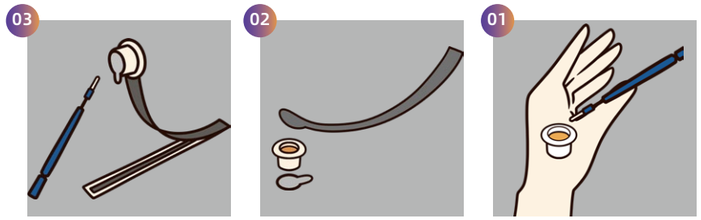
– Safe, Reliable, and Convenient Fluoride Protection

What Makes Pro Shield a Smarter Choice?

·Stable and long-lasting fluoride release — 22,600 ppm fluoride
·Relieves hypersensitivity
·Easy to apply, no drying needed
·Hexane-free formulation ensures safety
·Pleasant fruit flavor improves patient experience
·Unique packaging design facilitates clinical operation
·Light yellow color from natural resin provides visual control



How to Use the Unit-dose Packaging?

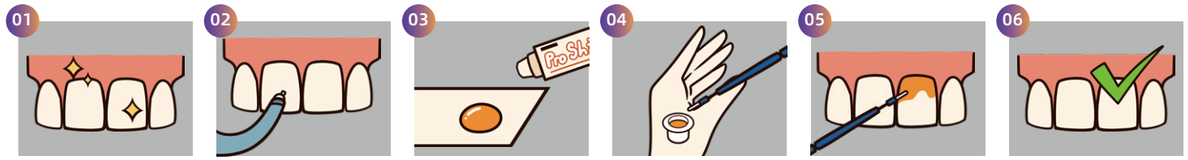


1. Peel off the sealing film of the applicator brush and take it out
2. Peel off the varnish sealing film and the bottom release film.
3. Stick the varnish container in a convenient position

Packaging

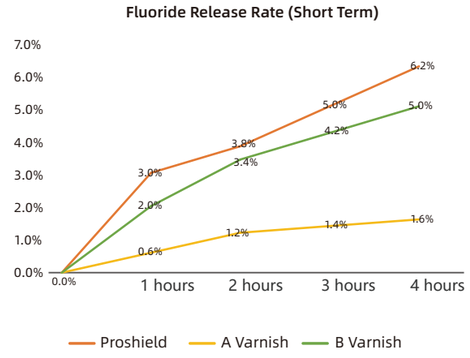
- 10g/tube - 0.4g*50/box

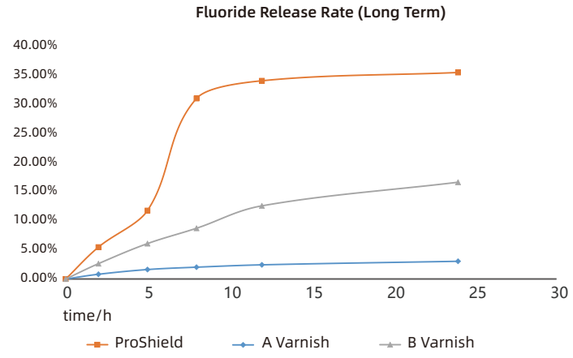
Excellent Operation Experience with Pro Shield



Clean | Remove excess saliva | For 10g tube: | For 0.4g unit-dose: | Apply | Finish

High Fluoride Release capability suitable for Kids and Adults





*Data from VinciSmile Lab

Clinical application suggestions:

1. Recommended dosage:

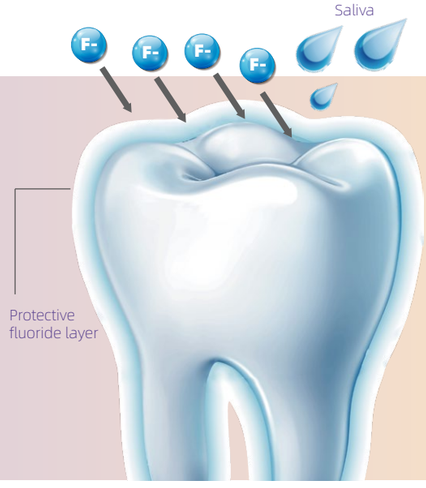
Deciduous dentition ≤0.25g (5.65mg fluoride)
Mixed dentition ≤0.4g (9.04mg fluoride)
Permanent dentition ≤0.75g (16.95mg fluoride)

2. Frequency of use:

Use once every **3-6 months.**

3. Precautions after use:

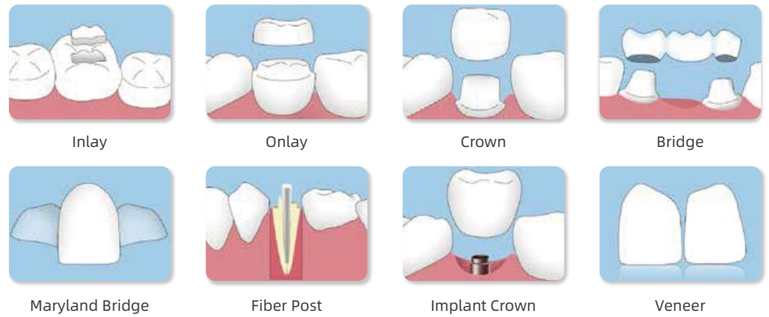
After using this product, do not brush the teeth, chew food, or drink hot drinks and alcoholic products (beverages, mouthwash, etc.) within **4 hours.**



VinciSmile is committed to becoming a reliable and all-round solution provider, brings you a professional and all-in-one TopCEM indirect restorative solution, containing etchant, adhesive, cement and all accessories you need in practice. Save your time effectively and help you achieve clinical excellence for patients.

We are making even greater strides in leading clinical education and developing product solutions that consistently help our customers achieve clinical excellence for their patients.

TopCEM Elite System is designed for cementation of all sorts of dental restorations including crowns, bridges, inlays/onlays, veneers, dental posts and other restorations, which are made of metals/alloys,metal-ceramic,all ceramic,oxide-ceramic(zirconia),glass ceramic,composite
and their combinations.



CEMENTATION PROCEDURE OF BRIDGES, INLAYS, ONLAYS, VENEERS.

1. Preparation/Pre-treatment of restorations:

1.1 Glass-ceramic restorations

Apply **HF-Etchant**, wait for 60 seconds.

Rinse thoroughly with water for 10 seconds.

Dry with oil-free air.

Apply **TopCEM Ceramic Primer**, wait for 60 seconds.

Dry the coupling agent with air.

*DO NOT TOUCH THE RESTORATION SURFACE WITH YOUR HANDS

1.2 Metals,Zirconia and Aluminium Oxide restorations

Sandblast the surfaces to be cemented.

Clean the blasted surface with alcohol or water.

Dry it with oil-free air.

Apply **HugeBond Universal Flipro*** to the inner surface, rub it in for 20 seconds.

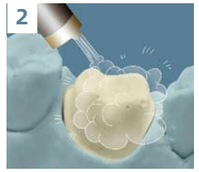
Dry with oil-free air for 10 seconds.

*Or **TopCEM Ceramic Primer**

*DO NOT LIGHT CURE THE ADHESIVE ON THE RESTORATION SURFACE.

2. Preparation/Pre-treatment of teeth

Clean the tooth to be cemented, rinse with water



Lightly air dry, or use cotton pellets to dry it off.
DO NOT OVER DRY.
Isolate the teeth with rubber dam.

[OPTIONAL]

Apply **P-Etchant** to both enamel and dentin surface(Total etch) or
to enamel surface only (Selective etch).

Rinse the surfaces thoroughly for 10 seconds with water.
With a stream of water (0.2 -0.4 MPa pressure) while using suction tube to dry the field simultaneously.

Dry lightly the tooth surface afterwards.

Clean and dry the tooth surface with oil-free air for 2-3 seconds. **DO NOT OVER DRY.**

Apply **HugeBond Universal Flipro** to the tooth surface, rub it in for 20 seconds evenly to ensure a shinny surface.

Air dry for 10-15 seconds.
(Use a gentle stream of air to remove solvent in the adhesive. If surface shine disappears after drying, re-apply the adhesive and re-dry.)

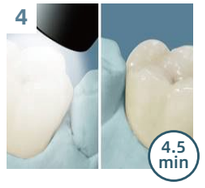
Light cure tooth for 10 seconds.
(with an output of >800mw/cm2 light source)

3. Cementation of restorations

Place 1:1 mixed Dual Cure Resin Cement onto the primed surface.

Seat the restoration on the tooth in position.

Light cure the excess cement from the margin for 2 seconds, then clean the excess material.



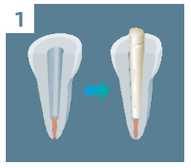
Light cure each side for 10s, or wait for 4.5 minutes.

Finish and polish, adjust the occlusal.

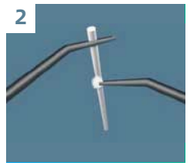
CEMENTATION PROCEDURE OF FIBER POST

1. Preparation/Pre-treatment for restorations

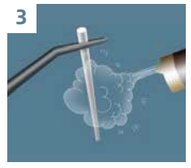
1.Posts made from Fiber composite,ceramic or metal



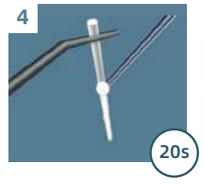
Prepare the root and try the post according to the corresponding Instruction of Use.



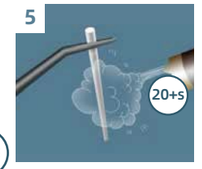
Clean up the fiber post with alcohol.



Dry with oil-free air.



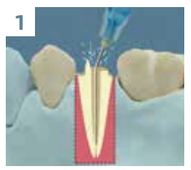
Apply **HugeBond Universal Flipro** to the fiber post,rub it in for 20 seconds.



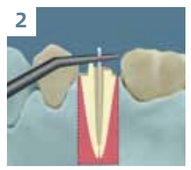
Dry with oil-free air.

Light cure the post for at least 20 seconds.

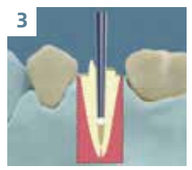
2. Preparation/Pre-treatment for root canals



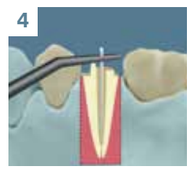
Clean the root canals with distilled water or sodium hypochlo-rite (NaOCl) .



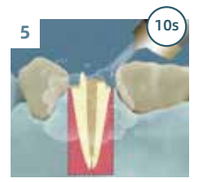
Clean and dry with paper tips.



Apply **HugeBond Universal Flipro** to the root canal,rub it in for 20 seconds.



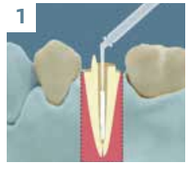
Absorb the excess adhesive with paper tips or cotton swab.



Dry with oil-free air.

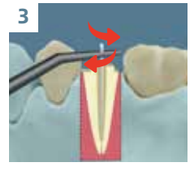
Light cure the root canal for 10 seconds

3. Cementation of Fiber Post

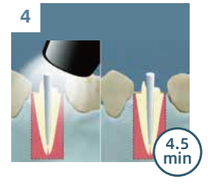


Fill enough amount of **TopCEM** into the root canal.

Apply additional cement to the post.



Seat the post into the root canal.



Light cure for 10 seconds and wait for 4.5minutes for the cement to set.