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# TopCEM Elite System

Adhesive Resin Cement Solution

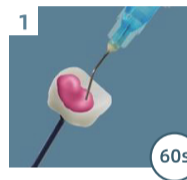
Caution: Please refer to the Instructions for Use first.

## • INDICATION •

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/alloy, glass ceramic, oxide ceramic(zirconia), metal-ceramic, all-ceramic, composites, and their combinations.

## PREPARATION/ PRETREATMENT ( RESTORATIONS )

### • Porcelain /Glass Ceramic Restorations



Apply a layer of 9% hydrofluoric acid etching gel (e.g., **HF-Etchant**) to the restoration surface. Wait for 60 seconds.



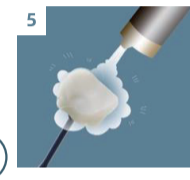
Rinse thoroughly with water for 10 seconds



Dry with oil-free air.



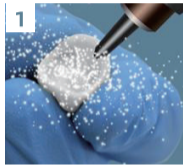
Apply **TopCEM Ceramic Primer** to the inner surface of the restoration, and wait for 60 seconds.



Dry the primed surface with oil-free air. \*DO NOT TOUCH THE SURFACE WITH YOUR HANDS.

## PREPARATION/ PRETREATMENT ( RESTORATIONS )

· Metal, Zirconia and Aluminium Oxide Restorations



Sandblast the surface of restoration to be cemented.



Clean the blasted surface with alcohol or water.

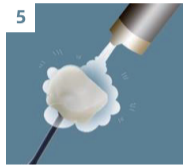


Dry the restoration with oil-free air.



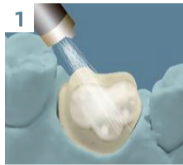
Apply **TopCEM Ceramic Primer\*** to the inner surface of the restoration, and wait for 60 seconds.

\*Or HugeBond Universal

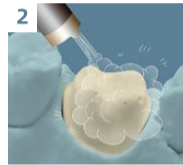


Dry the coupling agent with oil-free air.

## PREPARATION/ PRETREATMENT ( TEETH )

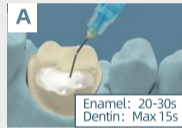


Clean the tooth to be cemented, rinse with water.

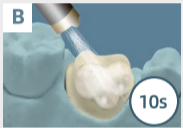


Gently dry the tooth surface with oil-free air or cotton pellets. Isolate the teeth with rubber dam. Be careful not to over dry.

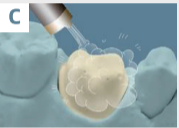
[OPTIONAL]



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

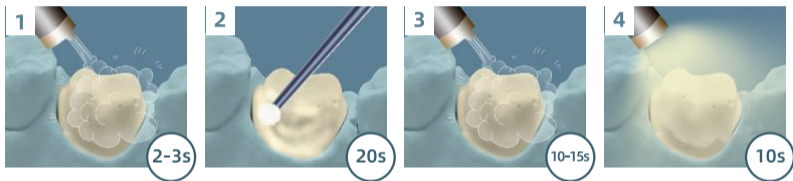


Rinse the tooth surface thoroughly with water for 10 seconds. With a stream of water (0.2 -0.4 MPa pressure) while using suction tube to dry the field simultaneously.



Gently dry the tooth surface with air.

## CEMENTATION/APPLICATION (APPLY ADHESIVE TO TEETH)



1 Dry the tooth surface with oil-free air for 2-3 seconds. Be careful not to over dry.

2 Apply **HugeBond Universal** to the tooth surface evenly in two consecutive coats within 20 seconds to ensure a shiny surface.

3 Dry the tooth surface with oil-free air for 10-15 seconds to remove the solvent. (If the shiny surface disappears after drying, re-apply the adhesive and re-dry.)

4 Light cure the tooth surface for 10 seconds.

**Note:** Do not light cure bonding agent on the indirect restoration.

## CEMENTATION OF RESTORATIONS

• Bridges, inlays, onlays, veneers



1 Place the 1:1 mixed **TopCEM** onto the primed surface of the restoration.

2 Seat the restoration on the tooth in position.

3 Light cure the excess cement in the margin for 2 seconds, remove and clean.

4 Light cure each side of the restoration for 10s, or wait for 4.5 minutes.

5 Finish and polish, adjust the occlusal.

## PREPARATION/ PRETREATMENT (RESTORATIONS)

### • Posts made from Fiber Composite, Ceramic, or Metal

Note: Only for reference. For details, please refer to the Instructions for Use of the post.



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

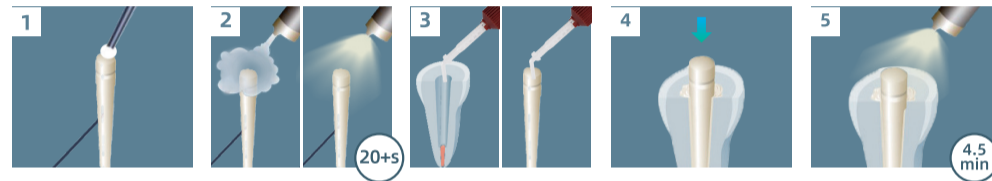
Rinse and dry the canal with paper tips or cotton swabs. Be careful not to over dry.

Apply **HugeBond Universal** to the root canal.

Absorb the excess adhesive with paper tips or cotton swab, and dry with oil-free air.

Light cure the adhesive for 20s.

## CEMENTATION OF POSTS



Apply **HugeBond Universal** evenly to the post. Use paper tips to absorb excess adhesive.

Gently air dry with oil-free air. Then light cure the post for at least 20s\*.

\*Extend the light cure time appropriately according to the post length.

Fill enough amount of **TopCEM** into the canal. Apply the additional cement to the post.

Seat the post into the canal.

Light cure the excess cement, remove and clean. Wait for about 4.5 minutes for the cement to set.

## Caution and Parameters

### • Working and Setting time

	Time and condition
Working time	> 60 seconds at room temperature (23°C)
Setting time (including working time)	≤ 4.5 minutes intraorally (37°C)

### • Light cure time and Output

Light cure time	Light output
20 seconds	Light output < 800 mw/cm <sup>2</sup>
10 seconds	Light output > 800 mw/cm <sup>2</sup>

### • CAUTION •

- Refer to outer package for expiration date. Do not use after expiration date.
- For dental use only. Do not use for indications or applications that are not specifically noted in the instructions for use.
- Refer to the Instructions for Use first.
- Follow the Operating Procedures when using.