



DESCRIPTION AND INTENDED USE:

FUSION-Zr™ Multi-Purpose Veneer Cement is self-adhesive, tooth integrating, chemically bonds to restorative materials and seals out microleakage. It is recommended for the permanent cementation of translucent all-ceramic restorations, Feldspathic Porcelain, Lithium Disilicate and other CAD/CAM type materials, Translucent Zirconia, veneers, crown & bridge, inlays/onlays. The chemical composition of FUSION-Zr™ includes adhesive acrylate resins, inorganic nano and micron size fillers, which eliminates microleakage between the tooth surface and the restoration. **FUSION-Zr™** cement is a unique gel-like product that does not slump and will hold veneers in place without drifting. Low viscosity allows complete coverage of the cement between the tooth surface and restoration. **FUSION-Zr™** is a single component, light cured cement. **FUSION-Zr™** shades available are: Crystal Clear, Opal White and new white (more opaque).

DIRECTIONS FOR USE:

Important: Check to make sure your curing light can penetrate through the veneer or restoration that you are cementing. When translucency of restoration is uncertain use **FUSION-Zr™** Dual Cure Resin Cement. Tooth surfaces should be clean, moist, and free of any contaminants. The tooth surface (enamel) is to be etched with Phosphoric Acid. Compatible with all bonding agents. Bonding agents should be used on dentin and can be used on enamel but not required. Silane can be used but is not required. If silane is desired, use FUSION Silane (TAUB Item: 06-1000) for optimal results.

The surface of the restoration should also be prepared or abraded to optimize bonding of the restoration.

Veneer Placement on Dentin:

It is recommended that remaining enamel areas such as the margins or remaining facial/labial enamel be acid etched. Etched enamel should be left moist. After etching do not desiccate the tooth. Uncut enamel, such as margins or facial surfaces are optimally bonded using the acid etch technique. For optimal bond to poor quality dentin may be assisted by using bonding agents.

Veneer Placement on Enamel:

A restoration that is to be placed essentially onto enamel can be micro-abraded or acid etched. Due to the self-adhesive (tooth integrating) properties of **FUSION-Zr™** cement, clinically sufficient bonding (>28 MPa) is achieved to etched enamel. Bonding agents are not required when bonding to enamel.

INSTRUCTIONS – Light Cure - Step by Step:

- 1. a.) Cementation to Ceramic Restorations:** The internal surface should be prepared according to your laboratory's instructions. Silane can be used but is not required.
b.) Cementation to Composite Restorations: The internal surface should be roughened by bur or air abrade.
- 2.** Prepare tooth surface as indicated above. Sclerotic dentin, if exposed may require bonding agent.
- 3.** Check the fit and esthetics of the restoration by trying in the veneer or restoration. Place matrix band between teeth to prevent bonding of excess cement to these teeth.
- 4.** Apply cement directly onto the internal surface of the veneer. Avoid direct exposure of the cement to intense light (Turn off overhead light). Smooth out the cement to reduce pressure on the veneer when seating the veneer. Gently seat the veneer onto the tooth. Clear the contacts with dental floss before curing and remove excess cement.
- 5.** Light cure the veneer for 20 seconds making sure that all veneer surfaces are exposed to the curing light. This may require greater time for larger veneers or those which are quite thick.

WARNING:

- **For professional use by dental personnel only.**
- **Veneer Cement and Etchant may cause irritation to eyes and skin on contact. Take all necessary precautions to avoid contact with eyes and soft tissue. If materials contact eyes, rinse with water. If materials contact skin, wash skin with soap and water. Seek medical attention if irritation persists.**
- **Wear protective eyewear and gloves. Wash hands after use. Emergency eye wash fountain should be available.**

STORAGE:

- **Store tightly capped in original container at cool room temperature. Avoid direct sunlight and extremes of temperature.**
- **Shelf life of unopened product: 2 years from date of manufacture. Re-cap immediately after use.**
- **Designed to be used at room temperature between 65-70° F.**



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PRODUCTS

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