

ENGLISH

General Information

The Vitremer™ core bulk/protective system, manufactured by 3M ESPE, is comprised of shaded glass ionomer powder, the glass ionomer liquid, primer and a finishing glue.

Vitremer core bulk/protective system is a two part, powder/liquid composite. The powder is a diatopae, fluoromimetic/glass. The liquid is a light sensitive, aqueous solution of a modified polyalkenoic acid. Vitremer core bulk/protective provides the major benefits of glass ionomer cements- adhesion to both structure, rapidly release and biocompatibility.

Vitremer core bulk/protective will set by exposure to visible light. It also has two self-curing mechanisms to provide a reliable rapid cure when light does not penetrate and thus allows for bulk two-part curing.

Vitremer core bulk/protective is recommended for use with Vitremer primer. A one part, visible light cure cavity curing glue, its function is to adequately wet the bonding surface of the restoration to the glass ionomer. In use, the primer is dispensed, applied, dried and light cured. Adequately drying and then light curing the primer partially before placement of the glass ionomer maximizes adhesion of the glass ionomer to both structure and primer when the glass ionomer is placed in bulk.

To maximize the final esthetics of a Vitremer restoration, application of the Vitremer finishing gloss is recommended. The finishing gloss is a single component, light cure, unified dental resin.

Indications

The Vitremer core bulk/protective system is indicated for:

- Class II and Class V restorations
- Restoration of cervical erosion/abrasion lesions.
- Restoration of root carious lesions.
- Class I and Class II restorations in primary teeth.
- Temporary repair of fractured teeth.
- Filling defects and interdental areas in crown preparations.
- As a core buildup where at least half the coronal tooth structure is remaining to provide structural support for the crown.
- Laminates/Sandwich Restorations.
- Interim Restorations.

Precautions for Dental Personnel and Patients

Vitremer core bulk/protective system Primer, Liquid and Powder/Liquid Mix:

Primer and Liquid contain HEMA (2-hydroxyethylmethacrylate). HEMA is severely irritating to the eye and is a known contact allergen. A skin irritation test is not recommended. HEMA may have an allergic response to acrylate resins. To reduce the risk of allergic response, minimize exposure to these materials. In particular, exposure to uncured resin should be avoided. Use of protective gloves and a no-touch technique is recommended. If skin contact occurs, liquid should be removed with soap and water. Acrylates may penetrate commonly used gloves. If you get contacts Primer, Liquid and Powder/Liquid mix, remove and discard glove, wash hands immediately with soap and water and then re-glove.

Primer, Liquid and Powder/Liquid mix may cause eye irritation upon contact and may be mildly irritating to oral soft tissue. Avoid contact with eyes and oral soft tissue. If accidental contact occurs, flush immediately with large amounts of water. If irritation persists, consult a physician.

Glass Ionomer Finishing Gloss:
The Finishing Gloss contains Bis-GMA and TEGDMA. A small percentage of the population is known to have an allergic response to acrylate resins. To reduce the risk of allergic response, minimize exposure to the material. In particular, exposure to uncured resin should be avoided. If accidental contact occurs, eyes or prolonged contact with oral soft tissue occurs, flush with large amounts of water. If skin contact occurs, wash skin with soap and water.

Instructions for Use

1. As An Aesthetic Restorative and as a Core Buildup

1.1. Shade Selection: For esthetic restorations, select the desired powder shade using the Vitremer shade guide. For core buildups, the blue shaded powder will provide contrasting color to both structure and is recommended for this application. The other Vitremer powder shades may also be used for core buildups if desired.

2. Isolation: Rubber dam is the preferred method of isolation. Gingival retraction and cotton rolls may also be used.

3. Cavity Preparation: Remove caries. Prepare cavity with minimal tooth reduction and with rounded internal line angles. To maximize the final esthetics of a Vitremer restoration, application of the Vitremer finishing gloss is recommended. The finishing gloss is a single component, light cure, unified dental resin.

4. Retention: For core buildups, multiple mixing cusps may require placement of pins for the Vitremer core bulk/protective system. If there is no exposure or no exposure of the pins, no pins are required. No retention pins are required for the recommended application. For core buildups and pins, apply primer to pins as well.

5. Dry the primer using an air syringe for about 15 seconds. Do not air-dry. After drying, the primed surfaces will remain shiny in appearance. **Light cure the dried primed surfaces for 20 seconds** using a 3M ESPE curing unit or other dental visible light curing unit of comparable intensity. The light cured surfaces will appear glossy.

- If adequately drying and re-staying light curing the primer, maximum exposure of the glass ionomer to both structure can be obtained.
- The primer is light sensitive and contains alcohol. Minimize ambient light exposure and vibration by protecting primer prior to use and replacing wax cap immediately after dispensing.
- **Dispensing powder and liquid:** The Vitremer powder caps protect protective seals. Remove seal cap and dispense into uncured glass cap, peel off seal and discard. Replace cap. The standard powder/liquid ratio of 2.5:1 by weight can be obtained with an equal number of level powder scoops and liquid drops. Additional powder may be incorporated into either a higher consistency powder. Two scoops of powder and 2 drops of liquid will provide an adequate amount of material for most core buildups. Using a separate mix cup for each restoration to be placed is recommended. Shake the mix to fluff the powder before dispensing. Insert the scoop into the mix cup, swirl it loosely packed and then dispense. The powder will settle to the bottom and a drop of powder and obtain a level scoop. Dispense the desired number of powder scoops onto the mixing pad. To beat about a proper liquid drop size, hold the Vitremer liquid vial vertically with the dropper tip down and dispense by contacting the mixing pad. Squeeze the vial to dispense the desired number of liquid drops onto the mixing pad.

- Notes:**
 - As a core buildup, the Vitremer core bulk/protective system is recommended for use with Vitremer primer.
 - The primer is light sensitive and contains alcohol. Minimize ambient light exposure and vibration by protecting primer prior to use and replacing wax cap immediately after dispensing.
 - **Mixing:** Using a cement spatula, mix the powder into the liquid. All of the powder should be incorporated into the mix within 45 seconds. Working time of the standard powder/liquid ratio is 3 minutes from the start of mix at room temperature of 73°F (23°C). High temperatures will shorten working time. Lower temperatures will lengthen working time. Back load and deliver by pressing or by using the most glass ionomer insert pan with the back of the pin and place in a 3M ESPE dispenser.

- Notes:**
 - The glass ionomer powders are sensitive to high humidity/low air with caps securely tightened and away from high humidity.
 - The glass ionomer liquid is light sensitive. Protect it from ambient light by dispensing just prior to use and replacing wax cap immediately after dispensing.
 - **Mixing:** Using a cement spatula, mix the powder into the liquid. All of the powder should be incorporated into the mix within 45 seconds. Working time of the standard powder/liquid ratio is 3 minutes from the start of mix at room temperature of 73°F (23°C). High temperatures will shorten working time. Lower temperatures will lengthen working time. Back load and deliver by pressing or by using the most glass ionomer insert pan with the back of the pin and place in a 3M ESPE dispenser.

1.2. Placement: Placement of the material in a dry field is recommended. Syringe the mixed glass ionomer into the cavity keeping the syringe tip in contact with the material to minimize an entrance into the restoration using appropriate mixing and placement instrument. For core buildups, syringe the glass ionomer into undercut areas, around pins, around points and fill the preparation. Condensing the glass ionomer with a damp cotton pledget held with cotton pieces rather than using a metal plunger can prevent over-curing surface solids in the matrix.

1.3. Curing: Light cure the glass ionomer by exposing its entire surface area to visible light for 3M ESPE curing unit or other dental visible light curing unit of comparable intensity according to the chart below.

For core buildups where a metal matrix band has been placed, light cure the glass ionomer from the occlusal for 40 seconds.

Shade	Thickness	Exposure Time
AS, Bz, C2, Peds, Bio	2.5 mm	40 secs
AS3, A4, B3, C4	2.0 mm	40 secs

Thickness of the Vitremer shades greater than indicated in the chart can be placed and light cure according to be allowed to self cure. **Self cure set time is 4 minutes from the start of mix at oral cavity temperature.** For core buildups, any self cure set time may be allowed to self cure following matrix removal.

1.4. Finishing: Immediately after curing, the glass ionomer restoration can be contoured using conventional tooth preparation instruments and a 3M ESPE diamond bur. The diamond bur should be used with water and SoL-X paste, manufactured for 3M ESPE, are recommended for polishing.

Immediately after curing, the glass ionomer core buildup can be prepared using conventional rotary instruments with water spray.

- Notes:**
 - The prepared glass ionomer core buildup should be kept wet with water or lubricated to prevent bonding to crown or provisional.
 - The prepared glass ionomer core buildup will not bond with temporary luting cements.

1.5. Finishing Gloss Application: To maximize esthetics, apply the Vitremer finishing gloss to the polished restoration. Rinse and gently dry the restoration. Dispense a drop of the finishing gloss into a clean well or

onto a clean mixing pad. Using a brush, apply a coating of the finishing gloss over the glass ionomer restoration and light cure for 20 seconds with a 3M curing unit.

For core buildups, application of the finishing gloss is not necessary.

Notes:

- The finishing gloss is a light sensitive material. Protect it from ambient light by dispensing just prior to use and replacing wax cap immediately after dispensing.

1.6. As a Laminated/Sandwich Technique

Indications: The technique is indicated for restorations where margins are located primarily in dentin or supracrestal enamel, for example, in deep Class II cavities. For cavities requiring complete plastic enamel margins, a bonded composite restoration is preferred.

where cavity design allows for a minimum composite restorative thickness of 2mm on occlusal surfaces.

Instructions for use:

- 1.1. Shade selection:** Select desired shade of Z100™ Restorative, manufactured by 3M ESPE.
- 1.2. Isolation:** Rubber dam is the preferred method of isolation.
- 1.3. Cavity Preparation:** Prepare cavity with minimal tooth reduction and with rounded internal line angles.

4. Retention: Place matrix and wedge appropriate for the restoration.

5. Glass Ionomer Placement

a. Priming: Apply Vitremer primer for 30 seconds to dentin and enamel surface to be covered by Vitremer Restorative. Do not air-dry. Air dry for about 15 seconds. Light cure for 20 seconds.

b. Dispensing/mixing: Dispense an equal number of scoops of Vitremer powder and drops of Vitremer liquid. Mix powder into liquid within 45 seconds. Back load material into delivery tip.

c. Placement: Syringe Vitremer restorative into prepared cavity. For Class II restorations, extend the restorative base no further than apply to the proximal contact. Light cure for 40 seconds.

d. Refinement: Losses matrix. Using a rotary instrument, remove excess Vitremer primer and restorative base from the enamel margins and cavity walls to be bonded subsequently with the adhesive/composite systems.

Note: On this step may lead to decreased bond strength of the adhesive/composite systems.

6. Adhesive System Application

a. Etching: Apply Scotchbond™ MultiLink™ etchant, manufactured by 3M ESPE, (35% phosphoric acid gel) to enamel and dentin. Application of etchant to the Vitremer Restorative base is not essential but will not adversely affect bonding to the resin. Wait 15 seconds. Rinse for 15 seconds. Air dry for 2 seconds.

b. Priming: Apply Scotchbond Multi-Purpose primer, manufactured by 3M ESPE, to etched enamel, dentin and Vitremer Restorative base. Dry gently for 3 seconds.

c. Adhesive application: Apply Scotchbond Multi-Purpose adhesive to primed enamel, dentin and Vitremer Restorative base. Light cure all surfaces for 10 seconds.

7. Composite Restorative Placement

• For a best result, do not touch bonded and lingual cusps together with a single restorative increment. Place Z100 Restorative in 2mm increments. Light cure each increment. Light cure each increment for 20 seconds.

8. Final restoration: Prepare the restorative as a core buildup or as final restoration following the interim period.

9. As An Interim Restoration

Indication: Posterior teeth having approximately one-half their coronal structure and number of cusps remaining may be restored to occlusal function and proximal contact for a period lasting up to 3 months using Vitremer core bulk/protective. The procedure may be advantageous when a short delay is desired before final restoration.

Following the interim period, the restorative material may be prepared as a bonded buildup or base for final crown coverage or in suitable cases, a laminate or sandwich restoration.

Instructions for use:

1. Priming: Apply Vitremer primer for 30 seconds to dentin and enamel surfaces. Do not rinse. Air dry primer for about 15 seconds. Light cure for 20 seconds.

2. Dispensing/mixing: Dispense an equal number of scoops of Vitremer powder and drops of Vitremer liquid. Mix powder into liquid within 45 seconds. Back load material into delivery tip.

3. Placement: Syringe restorative into prepared cavity. Incremental placement is not required. Light cure exposed surfaces for 40 seconds.

4. Final restoration: Prepare the restorative as a core buildup or as final restoration following the interim period.

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Indication: Posterior teeth having approximately one-half their coronal structure and number of cusps remaining may be restored to occlusal function and proximal contact for a period lasting up to 3 months using Vitremer core bulk/protective. The procedure may be advantageous when a short delay is desired before final restoration.

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Note: On this step may lead to decreased bond strength of the adhesive/composite systems.

6. Adhesive System Application

a. Etching: Apply Scotchbond™ MultiLink™ etchant, manufactured by 3M ESPE, (35% phosphoric acid gel) to enamel and dentin. Application of etchant to the Vitremer Restorative base is not essential but will not adversely affect bonding to the resin. Wait 15 seconds. Rinse for 15 seconds. Air dry for 2 seconds.

b. Priming: Apply Scotchbond Multi-Purpose primer, manufactured by 3M ESPE, to etched enamel, dentin and Vitremer Restorative base. Dry gently for 3 seconds.

c. Adhesive application: Apply Scotchbond Multi-Purpose adhesive to primed enamel, dentin and Vitremer Restorative base. Light cure all surfaces for 10 seconds.

7. Composite Restorative Placement

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8. Final restoration: Prepare the restorative as a core buildup or as final restoration following the interim period.

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Gebrauchsanleitung

1. Ästhetisches Füllmaterial und als Stumpfaufbaumaterial

1.1. Farbauswahl: Für ästhetische Restaurationen wählen Sie die richtige Farbnummer aus, indem Sie die Vitremer-Farbskala verwenden. Für Stumpfaufbau wird das blaue Pulver den Kontakt zum Zahn gewähltesten und wird für diese Applikation empfohlen. Wenn erwünscht, können die anderen Vitremer-Farbpulver auch für den Stumpfaufbau verwendet werden.

2. Isolation: Kofferdamm ist die bevorzugte Methode zur Isolation. Gingivale Retention und Wattebäusche können ebenfalls verwendet werden.

where cavity design allows for a minimum composite restorative thickness of 2mm on occlusal surfaces.

3. Kavitätvorbereitung: Entfernen Sie den Kavitäten. Präparieren Sie die Kavität mit minimalem Substratverlust und mit genähten inneren Wänden. Fixieren Sie den Kavitätensatz für einer abgedungenen Kavit. Wenn keine Präparation notwendig ist, reinigen Sie die aufzubauenden Flächen mit gewöhnlichem Bismut und Wasser. Spülen und trocknen Sie die Kavität.

4. Retention: Für Stumpfaufbau können mehrere Heilende Kollie die Platzierung von Silten notwendig machen.

5. Vaterschutz: Wenn die Pulpa nicht berührt oder anberührt nicht berührt werden, ist keine Unterfüllung notwendig.

6. Vitremer 3-4ach härtende Glas-Ionomer-System wird für direkte Pulveranlagerung nicht empfohlen.

7. Anpriming: Apply Vitremer primer for 30 seconds to dentin and enamel surface to be covered by Vitremer Restorative. Do not air-dry. Air dry for about 15 seconds. Light cure for 20 seconds.

8. Dispensing/mixing: Dispense an equal number of scoops of Vitremer powder and drops of Vitremer liquid. Mix powder into liquid within 45 seconds. Back load material into delivery tip.

9. Placement: Syringe Vitremer restorative into prepared cavity. For Class II restorations, extend the restorative base no further than apply to the proximal contact. Light cure for 40 seconds.

10. Refinement: Lossen matrix. Using a rotary instrument, remove excess Vitremer primer and restorative base from the enamel margins and cavity walls to be bonded subsequently with the adhesive/composite systems.

Note: On this step may lead to decreased bond strength of the adhesive/composite systems.

6. Adhesive System Application

a. Etching: Apply Scotchbond™ MultiLink™ etchant, manufactured by 3M ESPE, (35% phosphoric acid gel) to enamel and dentin. Application of etchant to the Vitremer Restorative base is not essential but will not adversely affect bonding to the resin. Wait 15 seconds. Rinse for 15 seconds. Air dry for 2 seconds.

b. Priming: Apply Scotchbond Multi-Purpose primer, manufactured by 3M ESPE, to etched enamel, dentin and Vitremer Restorative base. Dry gently for 3 seconds.

c. Adhesive application: Apply Scotchbond Multi-Purpose adhesive to primed enamel, dentin and Vitremer Restorative base. Light cure all surfaces for 10 seconds.

7. Composite Restorative Placement

• For a best result, do not touch bonded and lingual cusps together with a single restorative increment. Place Z100 Restorative in 2mm increments. Light cure each increment. Light cure each increment for 20 seconds.

8. Final restoration: Prepare the restorative as a core buildup or as final restoration following the interim period.

9. As An Interim Restoration

Indication: Posterior teeth having approximately one-half their coronal structure and number of cusps remaining may be restored to occlusal function and proximal contact for a period lasting up to 3 months using Vitremer core bulk/protective. The procedure may be advantageous when a short delay is desired before final restoration.

Following the interim period, the restorative material may be prepared as a bonded buildup or base for final crown coverage or in suitable cases, a laminate or sandwich restoration.

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• Der präparierte Glas-Ionomer-Stumpfaufbau sollte mit Speichel feucht gehalten werden, um die Anhaftung von chemisch härtenden Provisoren zu verhindern.

• Der präparierte Glas-Ionomer-Stumpfaufbau wird sich nicht mit provisorischen Befestigungsanetzen verbinden.

14. Applikation des Finierlackes: Um die Ästhetik zu verbessern, application des Vitrmer Finierlack auf die polierte Füllung.

15. Anpriming: Apply Vitremer primer for 30 seconds to dentin and enamel surface to be covered by Vitremer Restorative. Do not air-dry. Air dry for about 15 seconds. Light cure for 20 seconds.

16. Dispensing/mixing: Dispense an equal number of scoops of Vitremer powder and drops of Vitremer liquid. Mix powder into liquid within 45 seconds. Back load material into delivery tip.

17. Placement: Syringe Vitremer restorative into prepared cavity. For Class II restorations, extend the restorative base no further than apply to the proximal contact. Light cure for 40 seconds.

18. Refinement: Lossen matrix. Using a rotary instrument, remove excess Vitremer primer and restorative base from the enamel margins and cavity walls to be bonded subsequently with the adhesive/composite systems.

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