

# **INSTRUCTIONS FOR USE:**

# Bond-1 Technique Instructions for Direct Bonding to tooth structure:

- 1. Prepare and clean preparation site.
- 2. Etch enamel and dentin with 37% phosphoric acid etchant for 20 seconds. Rinse thoroughly. Remove excess moisture by blotting or with a light stream of air for 2 seconds. Leave surface moist.
- 3. Dispense Bond-1 Primer/Adhesive and apply two consecutive coats to tooth within 10 seconds, to ensure a shiny surface.
- 4. <u>Critical Step:</u> Remove solvent from Bond-1 Primer/Adhesive without disturbing resin surface. We recommend a gentle stream of air for a minimum of ten (10) seconds. Hold air syringe 1 inch from site, positioned so as not to disturb resin surface. If surface shine disappears after drying, re-coat with Bond-1 Primer/Adhesive and re-dry as above.
- 5. Light cure for 10 seconds.
- 6. For direct composite, re-apply *Bond-1* remaining on the brush tip to tooth. Air dry for 10 seconds (no light cure is necessary). Apply composite.

## **Permanently Cementing Metal Restorations**

Materials needed: etchant, Bond-1 Primer/Adhesive, Cement-It® Universal C&B™ Cement

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- 1. Prepare and clean restoration site per usual technique.
- 2. Total etch enamel and dentin for 20 seconds. Rinse thoroughly. Blot dry or use a light two second air stream. Important: Leave surface moist. If tooth is dry, poor bond strength and postoperative sensitivity may result.
- 3. Mix Bond-1 Dual Cure Activator with Bond-1 Primer/Adhesive. Using a fully saturated brush tip each time, apply two coats of Bond-1 Primer/Adhesive to tooth within 10 seconds to ensure a resin rich, shiny surface.
- 4. <u>Critical Step:</u> Remove solvent from Bond-1 Primer/Adhesive without disturbing resin surface. We recommend a gentle stream of air for a minimum of ten (10) seconds. Hold air syringe 1 inch from site, positioned so as not to disturb resin surface. (Avoid excess Bond-1 Primer/Adhesive in internal line angles or point angles.) If surface shine disappears after dring, re-coat with Bond-1 Primer/Adhesive and re-dry as above.
- 5. Light cure for ten seconds. Resultant layer(approx. 8µm) will not affect the fit of indirect restorations.

## METAL

- 1. Sandblast inside of restoration and clean thoroughly.
- 2. Apply one coat of Bond-1 Primer/Adhesive onto sandblasted internal surface of restoration.
- 3. Dry thoroughly with a gentle stream of air for about 10 seconds. The removal of moisture and *Bond-1* Primer/ Adhesive solvent is essential to achieving high bond strength. Do not light cure.
- 4. Mix Cement-It Universal C&B Cement (or other self/dual-cure resin cement) and place into restoration.
- 5. Place restoration as usual and follow cement kit instructions.

# **Bonding Metal Posts and Core Buildups**

Materials needed: etchant, Bond-1 Primer/Adhesive, Cement-It Universal C&B Cement, Build-It® FR™ Fiber Reinforced Core Build-Up Material POST CANAL

- 1. Prepare and clean canal per usual technique.
- 2. Total etch all enamel and dentin (including post canal) for 20 seconds. Rinse thoroughly. Remove excess water by blotting with a lint-free, dry 2x2 gauze or use a light two second stream of air. Remove excess water in the canal space by blotting with a paper point. <u>Important:</u> Leave surface moist. If tooth is dry, poor bond strength and postoperative sensitivity may result.
- 3 a. Mix one drop of *Bond-1* Dual Cure Activator with two drops of *Bond-1* Primer/Adhesive. b.) Flood the post canal with *Bond-1* Primer/Adhesive (See technique tip). c.) Using a fully saturated brush tip, apply *Bond-1* Primer/Adhesive to etched dentin and enamel surfaces. d.) Remove excess *Bond-1* in root canal with a paper point.
- 4. <u>Critical Step</u>: Remove solvent from *Bond-1* Primer/Adhesive without disturbing resin surface. We recommend a gentle stream of air for a minimum of ten (10) seconds. Hold air syringe 1 inch from site, positioned so as not to disturb resin surface. If surface shine disappears after drying, re-coat with *Bond-1* Primer/Adhesive and re-dry as above.
- 5. Light cure for ten (10) seconds for the surface enamel and/or dentin.

#### POST

- 1. Sandblast post and clean thoroughly.
- Apply one coat of Bond-1 Primer/Adhesive onto metal post (in case of cast post and core apply Bond-1 Primer/ Adhesive to internal surface of core as well. Remove excess from line angles) Blow thin and dry to remove solvent.
- 3. Light cure for ten seconds. Important: For tight fitting posts and/or cores, light curing is not necessary.
- 4. Mix equal amounts of Cement-It Universal C&B Cement (or other self-cure resin cement) and place onto post and/or cast core.
- 5. Place post as usual and follow cement kit instructions.
- 6. If necessary, build or syringe composite core material.

# For core buildups only

- 1. Thoroughly remove any temporary cement.
- 2. Follow instructions for direct composite, applying Bond-1 Primer/Adhesive to the metal post as well.

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# **INSTRUCTIONS FOR USE:**

# Permanently Cementing Porcelain and Indirect Composite Restorations

Materials needed: etchant, Bond-1 Primer/Adhesive, Silane, Lute-It® Dual-Cure Cement

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- 1. Remove temporary restoration. Prepare and clean restoration site per usual technique.
- 2. Try-in restoration for fit, color, etc. (See instructions in Lute-It Dual cure Cementation Kit.)
- 3. Total etch enamel and dentin for 20 seconds. Rinse thoroughly. Remove excess water by blotting or a two second stream of air. Important: Leave surface moist. If tooth is dry, poor bond strength and sensitivity may result.
- 4. Mix Bond-1 Dual Cure Activator with Bond-1 Primer/Adhesive. Using a fully saturated brush tip each time, apply two coats of Bond-1 Primer/Adhesive to tooth within 10 seconds to ensure a resin rich, shiny surface.
- 5. Critical Step: Remove solvent from Bond-1 Primer/Adhesive without disturbing resin surface. We recommend a gentle stream of air for a minimum of ten (10) seconds. Hold air syringe 1 inch from site, positioned so as not to disturb resin surface. (Avoid excess Bond-1 Primer/Adhesive in internal line angles or point angles.).

## PORCELAIN OR INDIRECT COMPOSITE

- 1. Apply Silane to inside of etched or sandblasted restoration. Allow Silane to stand for 60 seconds, then blow dry. (For composite restorations, the application of silane is optional.)
- 2. Brush on 1 coat of Bond-1 Primer/Adhesive.
- 3. Remove solvent from Bond-1 Primer/Adhesive with a jet of air. Light curing is not necessary.
- 4. Mix and apply proper shade of Lute-It Dual-cure Cement (other resin cement may be used) to inside of restoration.
- 5. Seat restoration and cure following manufacturer's technique instructions.

# REPAIR

#### Composite to Metal

Materials needed: intraoral sandblaster, hydrofluoric acid gel, Lute-It Silane, Bond-1 Primer/Adhesive, Lute-It Opaque Universal Stain.

- 1. If necessary, use a diamond bur to create a clean porcelain finish line. Rinse and dry.
- 2. Place rubber dam.
- 3. Sandblast site of broken porcelain and metal. Rinse and dry. If sandblasting is not possible, use a fine diamond bur to roughen up porcelain margin and exposed metal surface.
- 4. Brush hydrofluoric acid gel onto porcelain margin. Wait 1 minute. Rinse well and dry.
- 5. Apply Lute-It Silane to porcelain. Dry with iet of air.
- 6. Apply 1 coat of Bond-1 Primer/Adhesive onto both the treated porcelain and the sandblasted metal. Dry thoroughly with a (minimum 10 seconds) jet of air.
- 7. Light cure Bond-1 Primer/Adhesive for 10 seconds.
- 8. Apply Lute-It Opaque Universal Stain in a thin, even layer to metal surface. Light cure for 40 seconds.
- 9. Build and cure composite following manufacturer's instructions.

## **Composite to Composite**

Materials needed: Bond-1 Primer/Adhesive, intraoral sandblaster

- 1. Using fine diamond bur or carbide, grind existing composite to expose fresh surface.
- 2. Apply rubber dam and roughen the surface with an intraoral sandblaster, if possible. Rinse and dry with jet of air.
- 3. Apply 1 coat of Bond-1 Primer/Adhesive to composite surface. Dry thoroughly.
- 4. Light cure for 10 seconds. Build and cure composite following manufacturer's instructions.

#### **Composite to Porcelain**

Materials needed: intraoral sandblaster, hydrofluoric acid etchant, silane, Bond-1 Primer/Adhesive

- 1. Using a fine diamond bur or carbide, create a finish line in the porcelain.
- 2. Apply rubber dam and blast with intraoral sandblaster, if possible. Rinse and dry with jet of air.
- 3. Brush hydrofluoric acid gel onto porcelain margin. Wait 1 minute. Rinse well and dry.
- 4. Apply silane to porcelain. Air dry.
- 5. Apply 1 or 2 coats of Bond-1 Primer/Adhesive to porcelain surface. Dry thoroughly.
- 6. Light cure for 10 seconds. Build and cure composite following manufacturer's instructions.

#### Using Bond-1 Dual Cure Activator

Materials needed: etchant, Bond-1 Primer/Adhesive, Lute-It or Cement-It Universal C&B, Build-It F.R., direct composite

Bond-1 Dual Cure Activator is designed for use in conjunction with Bond-1 and Bond-1 C&B™ Primer/Adhesive. It is for use underneath a self-cured or dual-cured luting cement, core build-up composite or tooth filling composite where light curing is not indicated. Bond-1 Dual Cure Activator is also recommended for situations where light curing to polymerize the bonding agent is limited (in a root canal, for example). 1. Follow the routine bonding procedure with Bond-1 Primer/Adhesive and prepare the bonding surface.

- 2. Dispense one drop of Bond-1 Dual Cure Activator and two drops of Bond-1 Primer/Adhesive into a mixing well and briefly mix with a microbrush tip and apply directly to the bonding surface, the same way Bond-1 Primer/ Adhesive is applied.
- 3. Dry the surface with a jet of air to remove the solvent in the bonding agent. The bonding surface should appear shiny and resin rich. If not, reapply the resin mix and re-dry again, if necessary.
- 4. Apply a self-cured or dual-cured luting cement (Lute-It or Cement-It Universal C&B cement), core build-up composite (Build-It F.R. Core Build-up Material) directly onto the self-curable bonding agent surface and allow to set.
- 5. Optionally, the material may be light cured for 10 seconds, with a standard halogen lamp, to achieve instant cure. Pentron, Bond-1, Cement-It, Build-It and Lute-It are registered trademarks of Pentron® Clinical Technologies, LLC. Universal C&B, F.R. and Bond-1 C&B are registered trademarks of Pentron Clinical Technologies, LLC.

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