



ALPHA-BOND®

ADHESIVE



Alpha-Bond® Single Component Light Cure Bonding Adhesive with Dual Cure Activator (purchased separately) is formulated to bond to multiple substrates for both direct and indirect bonding procedures. It contains the hydrophilic monomer PMGDM that allows penetration into the tubules, intertubules and peritubular dentin. Our bonding adhesive offers you the flexibility and confidence you need in a bonding adhesive. For a single step light cure adhesive, use the bottle marked bonding adhesive. By combining the dual cure activator with the adhesive you can confidently bond to self-cure composites and areas inaccessible to light.

Indications for use:

- Direct Bonding of L/C Composite Resins and Compomers
- Veneers
- Composite, Ceramic and Metal repairs
- Indirect restorations: inlays, onlays, crown and bridge retainers
- Endodontic post cementation
- Direct Bonding of Self Cure Composites and Core Build-up Materials

Instructions for use Light Cured Materials

1.0 Direct Bonding Composite Resins and Compomers to Dentin/Enamel

- 1.1 Prepare the tooth. Isolate and dry tooth with oil-free compressed air.
- 1.2 Etch the tooth using the **Alpha-Etch37®** technique. Apply etchant to the prepared tooth. Etch enamel for 15 seconds or if applied to dentin etch for 10 seconds; never leave etchant on tooth for more than 60 seconds. Lightly agitating the etchant during its application can enhance its action.
- 1.3 Rinse thoroughly with water. Remove excess water with suction followed by blotting with suitable dry lint-free material, leaving the dentin and enamel with a non-shiny, matte surface yet moist.
- 1.4 Dispense two drops of **Alpha-Bond®** onto a suitable surface. Thoroughly saturate an applicator tip and generously apply two coats onto the tooth, remove excess adhesive by suctioning being careful to keep a continuous coating on the tooth. This should be followed by gently applying air for at least 5 seconds to evaporate the solvent, making sure you do not apply too much air to thin the adhesive. When properly dried the adhesive layer will not move with air and the surface should appear shiny. If the surface is not shiny it may not be properly sealed and additional applications are recommended.
- 1.5 Light cure the adhesive for 10 seconds (additional curing time may be required if output of curing unit is less than 600 mw/cm²).
- 1.6 Place the restorative material over the cured **Alpha-Bond®** adhesive.

2.0 Veneers

- 2.1 Follow steps 1.2 - 1.5 above.
- 2.2 Treat bonding surface of porcelain or ceramic veneer according to manufacturers or laboratories instructions (i.e. etching, mechanical roughening, silanating, etc).
- 2.3 Prepare and apply cement according to manufacturers instructions.

3.0 Composite, Ceramic and Metal Repairs:

- 3.1 Prepare and roughen the fractured surface with a diamond bur or by sandblasting. Create mechanical retention where possible. Rinse, isolate and dry thoroughly with oil-free compressed air. If repairing composite and/or metal proceed to step 3.3.
- 3.2 If repair is to porcelain, remove all loose pieces and contour porcelain edge. Isolate area with rubber dam and etch surface with hydrofluoric acid according to manufacturers instructions. Rinse thoroughly with water and dry with air. Apply silane to etched porcelain surface.
- 3.3 Follow steps 1.1 - 1.5 above
- 3.4 Place the restorative material over the cured **Alpha-Bond®** adhesive.

DENTAL
TECHNOLOGIES
6901 N. HAMLIN AVENUE
LINCOLNWOOD, ILLINOIS 60712 USA
www.dentaltech.com



EMERGO EUROPE
Molentstraat 15
2513 BH, The Hague
The Netherlands

PM-4279/REV002

Instructions for use Self and Dual Cure Materials - Mixing Ratio - Two drops of Bonding Adhesive to One drop of Activator:

4.0 Indirect restorations: inlays, onlays, crown and bridge retainers:

- 4.1 Treat bonding surface of porcelain or ceramic restoration according to manufacturers or laboratories instructions (i.e. etching, mechanical roughening, silanating, etc.)
- 4.2 Prepare the tooth. Isolate and dry tooth thoroughly with oil-free compressed air.
- 4.3 Etch the tooth using the **Alpha-Etch37®** technique. Apply etchant to the prepared tooth. Etch enamel for 15 seconds or if applied to dentin etch for 10 seconds; never leave etchant on tooth for more than 60 seconds. Lightly agitating the etchant during its application can enhance its action.
- 4.4 Rinse thoroughly with water. Remove excess water with suction followed by blotting with suitable dry lint-free material, leaving the dentin and enamel with a non-shiny, matte surface yet moist.
- 4.5 Dispense two drops of **Alpha-Bond®** Adhesive and one drop of **Alpha-Bond®** Activator onto a suitable surface. Mix contents for 1-2 seconds with a clean applicator tip. Thoroughly saturate an applicator tip and generously apply two coats onto the tooth and bonding surface of the porcelain/ceramic restoration, remove excess adhesive by suctioning being careful to keep a continuous coating on the surface. This should be followed by gently applying air for at least 5 seconds to evaporate the solvent, making sure you do not apply too much air to thin the adhesive. When properly dried the adhesive layer will not move with air and the surface should appear shiny. If the surface is not shiny it may not be properly sealed and additional applications are recommended. Do not light cure the **Alpha-Bond®** Dual Cure mixture.
- 4.6 Prepare and apply cement according to the manufacturers instructions.

5.0 Endodontic Post Cementation:

- 5.1 Treat bonding surface of post according to manufacturers or laboratories instructions (i.e. etching, mechanical roughening, silanating, etc).
- 5.2 Prepare the post space, isolate and dry thoroughly using air, suction or paper points.
- 5.3 Etch the post space using the **Alpha-Etch37®** technique. Apply etchant to the prepared post space. Etch dentin for 10 seconds; never leave etchant on tooth for more than 60 seconds.
- 5.4 Rinse thoroughly with water. Remove excess water in post space with a brief burst of air, suction or paper points, leaving the dentin with a non-shiny, matte surface yet moist.
- 5.5 Dispense two drops of **Alpha-Bond®** Adhesive and one drop of **Alpha-Bond®** Activator onto a suitable surface. Mix contents for 1-2 seconds with a clean applicator tip. Thoroughly saturate an applicator tip or paper point and generously apply two coats into the preparation, remove excess adhesive by suctioning being careful to keep a continuous coating on the tooth. This should be followed by gently applying air for at least 5 seconds to evaporate the solvent, making sure you do not apply too much air to thin the adhesive. When properly dried the adhesive layer will not move with air and the surface should appear shiny. If the surface is not shiny it may not be properly sealed and additional applications are recommended. Do not light cure the **Alpha-Bond®** Dual Cure mixture.
- 5.6 Apply a single coat of **Alpha-Bond®** Dual Cure Mixture to the post with the same applicator tip. Evaporate the solvent with a gentle stream of air for 5 seconds, making sure you do not apply too much air to thin the adhesive. If the surface is not shiny on the post reapply a second coat of **Alpha-Bond®** Dual Cure Mixture and evaporate the solvent with a gentle stream of air for 5 seconds. Do not light cure the **Alpha-Bond®** Dual Cure mixture.
- 5.7 Prepare and apply cement to surface of post and/or into the post preparation according to the manufacturers instructions.

6.0 Direct Bonding of Self Cure/Dual Cure Composites and Core Build-up Material:

- 6.1 Prepare the tooth. Isolate and dry tooth thoroughly with oil-free compressed air.
- 6.2 Etch the tooth using **Alpha-Etch37®** technique. Apply etchant to the prepared tooth. Etch enamel for 15 seconds or if applied to dentin etch for 10 seconds; never leave etchant on tooth more than 60 seconds. Lightly agitating the etchant during its application can enhance its action.
- 6.3 Rinse thoroughly with water. Remove excess water with suction followed by blotting with suitable dry lint-free material, leaving the dentin and enamel with a non-shiny, matte surface yet moist.
- 6.4 Dispense two drops of **Alpha-Bond®** Adhesive and one drop of **Alpha-Bond®** Activator onto a suitable surface. Mix contents for 1-2 seconds with a clean applicator tip. Thoroughly saturate an applicator tip and generously apply two coats of **Alpha-Bond®** Dual Cure Mixture onto the tooth, remove excess adhesive by suctioning being careful to keep a continuous coating on the tooth. This should be followed by gently applying air for at least 5 seconds to evaporate the solvent, making sure you do not apply too much air to thin the adhesive. When properly dried the adhesive layer will not move with air and the surface should appear shiny. If the surface is not shiny it may not be properly sealed and additional applications are recommended. Do not light cure the **Alpha-Bond®** Dual Cure mixture.
- 6.5 Prepare, apply and finish the restorative material as recommended according to the manufacturers instructions.

Storage:

Refrigeration is recommended. Store material between 2°C/36°F to 27°C/80°F. Always bring to room temperature before using (22°C/72°F).

Warnings:

- **Alpha-Bond®** Adhesive contains both acetone and alcohol and is highly flammable, keep away from sources of ignition.
- Immediately after use, tightly close the cap on the bottles.
- Avoid contact of **Alpha-Etch37®** with soft tissue, eyes and skin. **Alpha-Etch37®** contains phosphoric acid, which is harmful. In case of contact with soft tissue, eyes or skin immediately flush with water and seek medical attention.