



OptiBond[®]
Solo Plus[™]

Instruction For Use

Bonding Agent

OptiBond® Solo Plus

A guide for using the Solo Plus Adhesive System

Thank you for your decision to purchase another quality Kerr product. For over 100 years, Kerr has built a solid reputation for leading-edge products that represent a great value to the dental community. Please take a moment to read these instructions before using the material.

OptiBond™ Solo Plus is 15% filled with 0.4 micron barium glass (also found in the Kerr Point 4 composite). This unique technology provides the highest level of protection against microleakage, while sustaining high bond strengths to a variety of surfaces. The filler not only reinforces the hybrid zone, but penetrates the dentin tubules as well, creating a true “structural bond” not found in unfilled or even “nano” filled adhesive systems. With OptiBond Solo Plus, adhesion promoters are carried in an ethanol solvent, diminishing both the tedious need for multiple coats and constant re-application commonly found with acetone adhesives. OptiBond Solo Plus is indicated for both direct and indirect (in conjunction with a luting agent such as NX3) bonding applications.

OptiBond Solo Plus is available in two delivery systems: Bottle and Unidose™. Kerr’s Unidose delivery adhesive system was the first of its kind, designed as a progressive step toward ensuring fresh material for each bonding procedure. It is protected under U.S. Patent 5,860,806. **Unidose™ Delivery – for single patient use only, to prevent cross contamination between patients.**

Indications for use:

- Direct composite to enamel and/or dentin.
- Composite to composite.
- Composite to porcelain and/or metal.
- Amalgam sealing.
- Indirect bonding of veneers (used in conjunction with a resin luting agent).
- Indirect bonding of inlays, onlays, and crowns (used in conjunction with a resin luting agent such as NX3).
- As the adhesive in post and core applications.

Kit Configuration Options:

- OptiBond Solo Plus is available in two kit configurations and two delivery systems:
- Traditional bottle kit and delivery (5ml x 2 bottles)
- Unidose (single dose) delivery (0.1 ml per packet x 100 packets)

Directions for opening and/or dispensing:

Unidose delivery:

For single patient use only, to prevent cross contamination between patients.

- Open the unidose device.
- Insert the applicator brush into the container to saturate the tip.
- Discard unidose device after use.

Bottle delivery:

- Shake bottle briefly prior to dispensing.
- Dispense one drop of adhesive into disposable mixing well.
- Wet applicator tip completely.

Directions for Use: OptiBond Solo Plus

Direct Bonding with OptiBond Solo Plus

1. Etch enamel and dentin for 15 seconds with 37.5% Phosphoric acid etch.* Rinse thoroughly, ensuring that all etch is removed.
2. Dry lightly (do not desiccate).
3. Apply OptiBond Solo Plus to enamel/dentin surface with applicator tip for 15 seconds, using light brushing motion.
4. Air thin for 3 seconds.
5. Light cure for 20 seconds.†
6. Place composite and light cure.†

Bonding Composite to Composite

1. Prepare 2 to 3 mm bevel surrounding the fractured composite.
2. Etch composite with hydrofluoric acid** for one minute. Be careful to avoid the mucosa, and use rubber dam when possible.
3. Rinse and dry thoroughly, ensuring that all etch is removed.
4. Apply silane primer to etched composite surface.
5. Dry lightly (1 second).
6. Apply OptiBond Solo Plus to composite surface.
7. Air thin for 3 seconds.
8. Light cure for 20 seconds.†
9. Place composite and light cure.†

Bonding Composite to Porcelain and metal

1. Prepare 2 to 3 mm bevel surrounding the fractured porcelain. Clean metal of debris -sandblast when possible. It is sometimes advantageous to create undercuts within metal.
2. Apply 9% to 12% hydrofluoric acid gel** to the porcelain surfaces for one minute. Be careful to avoid the mucosa, and use rubber dam whenever possible.
3. Wash thoroughly and dry well.
4. Apply silane primer to etched porcelain surface.
5. Dry lightly (1 second).
6. Apply OptiBond Solo Plus to all surfaces.
7. Air thin for 3 seconds.
8. Light cure for 20 seconds.†
9. Coat any exposed metal surfaces with a light-cured opaquer per manufacturer's instructions.
10. Place composite and light cure.†

Amalgam Sealing

1. Use standard amalgam preparation (G.V. Black), with appropriate undercut retention.
2. Etch enamel/dentin for 15 seconds with Kerr Gel Etchant (37.5% phosphoric acid).*
3. Rinse thoroughly until all acid is removed.
4. Dry lightly (do not desiccate).
5. Apply OptiBond Solo Plus with light brushing motion for 15 seconds.
6. Air thin for 3 seconds.
7. Light cure 20 seconds.†
8. Place amalgam.

Indirect Bonding

These instructions cover the bonding portion of an indirect luting procedure. You will need to consult the directions of your chosen luting cement to ensure the correct application of that product. Kerr NX3, a resin luting agent, works well for this purpose, and is recommended as the luting agent of choice.

Veneers

1. Remove temporary and thoroughly clean the tooth surface of debris.
2. Etch enamel/dentin surfaces for 15 seconds with Kerr Gel Etchant (37.5% phosphoric acid).*
3. Rinse thoroughly until all acid is removed.
4. Dry lightly (do not desiccate).
5. Apply OptiBond SoloPlus with light brushing motion for 15 seconds.
6. Air thin for 3 seconds.
7. Light cure for 20 seconds.†
8. Continue with luting procedure, using preferred luting agent.

Crowns, Bridges, Inlays and Onlays and Metal Based Restorations

1. Remove temporary and thoroughly clean the tooth surface of debris.
2. Etch enamel/dentin surfaces for 15 seconds with Kerr Gel Etchant (37.5% phosphoric acid).*
3. Rinse thoroughly for 15-20 seconds until all acid is removed.
4. Gently air dry for 5 seconds (do not desiccate).
5. Apply OptiBond Solo Plus to enamel/dentin with a light brushing motion for 15 seconds to cover enamel/dentin surfaces.
6. Air thin for 3 seconds.
7. Light cure for 20 seconds.†
8. Apply resin cement (NX3) according to instructions for use.

Core Materials

1. Etch enamel/dentin surfaces for 15 seconds with Kerr Gel Etchant (37.5% phosphoric acid).*
2. Rinse thoroughly for 15-20 seconds until all acid is removed.
3. Gently air dry for 5 seconds (do not desiccate).
4. Apply OptiBond Solo Plus to enamel/dentin with a light brushing motion for 15 seconds to cover enamel/dentin surfaces.
5. Air thin for 3 seconds.
6. Light cure for 20 seconds.†
7. Mix core material (CoreRestore 2) catalyst and base.
8. Apply first layer of 2mm thickness or less to tooth structure and light cure.†
9. Build remaining core in bulk.

Cementation of Posts

1. Prepare post space. Size and fit post.
2. Etch enamel/dentin surfaces for 15 seconds with Kerr Gel Etchant (37.5% phosphoric acid).*
3. Rinse thoroughly for 15-20 seconds until all acid is removed.
4. Gently air dry for 5 seconds (do not desiccate). A paper point may be used to remove any remaining moisture.
5. Apply OptiBond Solo Plus on the post in a thin, even layer.
6. Light cure.†
7. Apply OptiBond Solo Plus to the post preparation space for 15 seconds using a light brushing motion.
8. Air thin the adhesive for 3 seconds. Avoid pooling of adhesive before light curing. **Remove excess adhesive with a dry applicator brush or absorbent paper point.**
9. Light cure for 20 seconds.†
10. Mix resin cement according to manufacturer's instructions for use; apply to post and seat.
11. Light cure for 20 seconds.†

† **Recommended Cure Times:** Demi, 5 seconds, L.E.Demetron II, 5 seconds; L.E.Demetron I, 10 seconds; or Optilux 501 in Boost mode, 10 seconds, Ramp Mode, 20 seconds, or Regular Mode, 20 seconds. For all other lights, see manufacturer's recommendation.

CAUTION: Uncured methacrylate resin may cause contact dermatitis and damage the pulp. Avoid contact with skin, eyes, and soft tissue. Wash thoroughly with water after contact.

***CAUTION:** Contains Phosphoric Acid. Avoid contact with skin, eyes, and soft tissue. In case of contact with skin or eyes, flush immediately with water; get medical attention for eyes. Do not take internally.

****CAUTION:** Contains hydrofluoric acid (HF). Avoid contact with skin, eyes, and soft tissue. In case of contact with skin or eyes, flush immediately with water. Get medical attention. Do not take internally. The use of a rubber dam is recommended for safety when using HF. Wash thoroughly (ALL GEL MUST BE REMOVED!) and air dry.