Kit components (excluding Catalyst syringe) may be refrigerated but not frozen. Catalyst syringe should be stored at room temperature.

**PRODUCT DESCRIPTION:**
Amalgambond Plus is a self-cure bonding system for amalgam and composite resin restorations.

**INTENDED USE/INDICATIONS:**
- Retention of amalgam and resin composite restorations.
- Treatment and prevention of sensitivity.
- Capping small vital exposures.

**CONTRAINDICATIONS:**
Not for use on or by persons who have a methacrylate or HEMA sensitivity. Use of protective gloves and a no-touch technique is recommended.

**PRECAUTIONS:**
Caution: Do not swallow. Not for internal use. Wash immediately if accidentally applied to skin, eyes or soft tissue.

Caution: To prevent amalgam from bonding to the metal matrix band, lubricate the interior of the band with wax or copal varnish before applying.

Caution: Do not use Amalgambond on surfaces that have been contaminated with eugenol (ZOE, etc.) as it will inhibit setting.

Caution: Prior application of Pain-Free, varnishes or liners (copal varnish, Ca(OH)₂, or glass ionomer) is not necessary or recommended, as it will reduce or prevent adhesion.

Caution: Prevent contamination of surfaces being bonded. Whenever possible, use a rubber dam.

Caution: Use of retentive pins in conjunction with Amalgambond is not generally necessary or recommended.

**WHAT’S SUPPLIED:**
- Dentin Activator A Universal Gel
  Stock No. S394 - 5ml
- Adhesive Agent AA - Stock No. S374 - 8ml
- Base B - Stock No. S372 - 5ml
- Catalyst - Stock No. S371 - 0.7ml
- HPA Powder - Stock No. S376 - 2g
- Precision Applicators - Stock No. S379 - 50pc
- Accessory kit - Stock No. S375 - 1 brush handle 100 disposable brush tips, 1 spatula, 3 measuring spoons and 2 mixing wells.

**DIRECTIONS:**
1. Prepare cavity for composite, amalgam or inlay restoration as usual. Severe retentive point angles and undercuts can be eliminated in amalgam or composite preparations.

2. Clean and lightly dry preparation.

3. **NEVER USE CAVITY VARNISH OR PAIN-FREE PRIOR TO AMALGAMBOND.** Ca(OH)₂ liners are not necessary.

**CAUTION:** To prevent Amalgambond Plus from adhering to metal matrices, coat the inner aspect with a thin layer of wax, cavity varnish, or mineral oil. Otherwise, amalgam alloy may bond to the metal matrix and fracture the restoration when the band is removed.

**VIRTUALLY IMPOSSIBLE SITUATIONS:**
For stronger, super-retentive amalgam bonds to teeth whose preparation leave little or no facing walls in a box-form, HPA powder is recommended. To make an HPA mix, dispense 3 drops BASE, 1 drop CATALYST, 1 scoop HPA powder into mixing well and GENTLY STIR. Apply a thin layer of this mixture to the preparation, keeping it away from margins. Condense amalgam while this HPA mixture is still wet. Never use HPA powder with composite.
4. Dispense 1 or 2 drops of DENTIN ACTIVATOR (A) into mixing well. Apply to exposed dentin for 10 seconds. Wash thoroughly and dry with oil-free, moisture-free air-stream. DENTIN ACTIVATOR can also be used to etch enamel that surrounds composite preparations IF it is left on enamel for 30 seconds before water-rinsing.

5. Brush a thin layer of ADHESIVE AGENT (AA) onto activated dentin surfaces. Blow away “puddles” with a GENTLE air-stream to achieve an even, thin layer of coverage. Leave undisturbed for 30 seconds. It is not necessary to apply ADHESIVE AGENT to etched enamel surfaces, but there is no harm if some overruns onto enamel.

6. If the restoration is an amalgam, begin trituration NOW, so alloy will be ready to condense as soon as the Amalgambond Plus resin mixture of base/catalyst has been applied (alloy condensed while mix is wet.)

7. Dispense 2 drops of BASE (B) and 1 drop of CATALYST (C) into a clean, dry mixing well. Mix thoroughly with GENTLE STIRRING for 3-5 seconds, and brush a thin, even layer onto dentin (and enamel for composite resins). When placing amalgam, begin condensation immediately, before the adhesive resin dries. For composites, allow the adhesive resin to dry for 60-90 seconds before applying the composite.

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**DIRECTIONS FOR AN ADHESIVE PULP CAP**

An Amalgambond pulp cap is not an alternative to endodontic therapy. A tooth suffering irreversible pulpitis, or one that has limited recuperative power, requires a root canal.

However, if the exposure is small, with a fresh hemorrhage such as a pinpoint iatrogenic exposure, Amalgambond or C&B-Metabond can serve as excellent capping materials ... particularly if the patient is young so the pulp has strong recuperative powers.

If you intend to bond an amalgam restoration and have good access to the exposure, place your lubricated matrix before beginning the cap. If it is hard to see, however, band the tooth after Step 5.

1. Apply the Green Dentin Activator for 10 seconds to both the exposure and the preparation. (The ferric chloride in the solution should control the bleeding.)

2. Rinse the tooth thoroughly. Then lightly dry it to eliminate standing water.

3. Do NOT apply the “AA” solution at this stage. (This 35% aqueous solution of HEMA might irritate the exposed pulp.) Mix Amalgambond-Plus with the HPA powder (3 drops base, 1 drop catalyst, one scoop HPA powder.)

4. Apply the adhesive to the exposure and the dentin immediately surrounding it.
5. Allow the adhesive to polymerize. This will seal the exposure. Then proceed to bond the restoration as usual.

6. (Since the etchant has already been applied, skip the green Dentin Activator.) Apply the AA component to the entire preparation. Allow it to sit undisturbed for 30 seconds, then gently blow off any puddles.

7. Mix the Amalgambond as usual (with or without the HPA powder.)

8. Brush the mixture onto the preparation.

If you’re using composite, allow the adhesive to cure thoroughly (60-90 seconds) before beginning the buildup.

If you’re using amalgam, begin lightly condensing as soon as the adhesive has been applied to the tooth. (Incidentally, the operative word here is “lightly.” Do not apply too much pressure or you may disrupt the pulp cap. Since spherical alloys condense easily at low pressure, they’re probably a better choice for cases where there have been exposures.)

HELPFUL HINTS:

• Low-viscosity composite resins “wet” adhesively-prepared surfaces better than high-viscosity composites. If high-viscosity restoratives are preferred, apply a thin layer of UNFILLED OR FLOWABLE COMPOSITE RESIN and cure before applying the high-viscosity composite.

• Low-viscosity luting resins are preferred when seating well-fitted inlays or veneers.

• After use, loosen catalyst screw one turn to relieve pressure, and tightly recap syringe.

FOR AMALGAMS:

Place and condense as soon as final Amalgambond Plus resin film has been applied and before it dries. For even stronger bonds in virtually impossible cases use HPA (High Performance Additive). See ‘Virtually Impossible Situations’ box on page 1 for HPA use.

FOR ADDITIONS TO OLD AMALGAMS:

Air-blast surface of old filling with 50ml Aluminum Oxide until “frosty”. Use DENTIN ACTIVATOR on adjacent dentin. See above. Apply thin, even layer of ADHESIVE AGENT and Amalgambond Plus resin, and condense new alloy before the adhesive resin dries. For even stronger bonds use HPA powder. See ‘Virtually Impossible Situations’ box on page 1 for HPA use.

FOR DIRECT COMPOSITES OR VENEERS:

Place composite restorative AFTER Amalgambond Plus adhesive resin has dried completely. HPA powder is not recommended for direct composites.

FOR COMPOSITE INLAYs:

Lute composite inlays AFTER Amalgambond Plus resin has dried completely. HPA POWDER is NOT recommended when cementing inlays or veneers.

FOR APICOECTOMY OR ENDO-ACCESS SEALS:

HPA POWDER is NOT recommended. If sealing with amalgam alloy, condense BEFORE Amalgambond Plus resin has dried. If sealing with composite, place restorative AFTER Amalgambond Plus resin has dried (60 seconds).

ADVERSE REACTIONS:

Before treatment, inquiry should be made to determine whether the patient has had previous hypersensitivity reactions to any of the ingredients in Amalgambond. Amalgambond Adhesive Agent (AA) and Amalgambond Base contain HEMA (2-hydroxyethylmethacrylate), a known contact allergen. A small percentage of the population is known to have an allergic response to methacrylate resins. To reduce the risk of allergic response, minimize exposure to these materials. Use of protective gloves and a no-touch technique is recommended.

CAUTION: Do not swallow. Not for internal use. Wash immediately if accidentally applied to skin, eyes or soft tissue. Use in well-ventilated room. Not for use on or by persons allergic to any of the ingredients.

WARRANTY:

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