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SCI-PHARM



Light-Cured Orthodontic Adhesive

TECHNICAL BULLETIN Instructions



Light-cured orthodontic adhesive for metal, plastic and ceramic brackets.

KIT CONTAINS:

- Cat. No. 60-051: Adhesive Paste, 20g (4 x 5g syringes)
- Cat. No. 60-052: Enamel Primer, 7cc
- Cat. No. 50-110: Enamel Conditioner, 13cc
- Accessories & Instructions



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Cat. No. 60-05

OUTSTANDING FEATURES OF THE MATERIAL

- Virtually unlimited working time.
- Ease of application.
- Fast cure.
- Economy of use - virtually no waste.
- Highly reliable.
- Versatile - bonds ceramic, plastic and metal brackets.
- Superior resistance to discoloration.
- Works well with conventional curing lights, operating in the visible wavelength range, and with laser curing instruments.

INTRODUCTION

Light-cured orthodontic adhesives have introduced an entirely new technique to the art of bonding brackets to teeth. This technique offers unique advantages and conveniences when compared to the self-cured (conventional and no-mix type) adhesives, with very few limitations on its scope of application or indications for use.

Light-cured adhesives brought the possibility of reducing or eliminating some of the major shortcomings of their self-cured counterparts, such as:

1. Limited working time and the resulting unreliability of performance and difficulties in removal of excess adhesive.
2. Discoloration; some of the self-cured adhesives show an unacceptable level of discoloration when exposed to the oral environment and/or sunlight.
3. Deterioration upon storage, especially at elevated temperatures.
4. Dependence of curing time on ambient temperatures.

CAUTION

CuRAY-Eclipse® is a state of the art material, offering the most desirable characteristics from the standpoints of versatility, ease of handling, esthetics and reliability.

CuRAY-Eclipse's® high light sensitivity allows it to be used, not only for bonding translucent (plastic or ceramic) brackets, but also light-impermeable metal ones.

Simplicity of the application procedure and relief from time pressure allow for precise bracket placement and result in obtaining reproducible bonding strengths. There is also ample time for cleaning excess adhesive from around the bracket bases.

The adhesive is applied in two steps: First, the etched enamel is wetted lightly with the primer; then the paste is applied to the bracket base and the bracket is placed on the tooth. After removal of the excess, the adhesive is cured in one stage. The cure of the primer in a separate stage is not necessary or even indicated.

BONDING PROCEDURE

TOOTH PREPARATION

PROPHYLAXIS - Prophylax the enamel surfaces to be bonded. Use prophylax pastes that do not contain oil or fluoride. Rinse thoroughly, then dry teeth with oil-free air.

ETCH - Isolate the teeth. Apply the Enamel Conditioner (etching agent) over the areas to be bonded. Allow 40 seconds for etching (up to 90 seconds for deciduous teeth). Rinse thoroughly, re-isolate and dry etched teeth with oil-free air. The etched area should appear frosty white. If this is not the case, re-etch for an additional 20 seconds, wash and dry.

BONDING

Re-isolate the teeth and apply a thin layer of the primer over the dry, etched area. Apply the paste over the bracket base. Place the bracket on the tooth and press. Remove the excess around the bracket base. Cure with light from the direction of any two edges (mesial, distal, incisal, gingival).

For conventional curing lights, cure time from each direction is 20-40 seconds depending on the intensity of the emitted light. When curing with laser curing instruments, follow the manufacturer's instructions.

Under light-permeable ceramic and plastic brackets, the adhesive may be cured by directing the light through the bracket. Plastic brackets may require priming with a special bracket primer (not included in the kit) before bonding.

HELPFUL HINTS

1. The intensity of curing lights may vary. Some lower intensity lights may require a longer curing time.
2. Dispensed primer and paste should not be exposed to direct, intense light for an extended period of time.
3. On plastic brackets, use only the primers specifically recommended for application in conjunction with light-cured adhesives (such as Scientific Pharmaceuticals' Light-Cured Plastic Bracket Primer, Cat. No. 60-055).
4. CuRAY-Eclipse® is packaged in a syringe with a snap-off cap. Dispense the material by turning the screw clockwise. Slow turning is recommended in order to avoid waste. Remove the material dispensed at the tip of the syringe and turn back the screw (counterclockwise) in order to suck back the excess. Replace the cap.

BRACKET REMOVAL

To remove, use a ligature cutter and apply to the enamel/adhesive interface. Usually, the major portion of the adhesive is removed with the bracket. Remaining adhesive can be removed with a scaler.

STORAGE AND SHELF LIFE

Store at temperatures not exceeding 75°F (24°C). When stored under such conditions, the material has a shelf-life of 2 years.

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