



Manufactured in U.S.A. by:

SCI-PHARM



Dentin/Enamel Bonding System

Sci-Pharm Catalog No. 50-120

TECHNICAL BULLETIN

Instructions



INDICATIONS FOR USE:

For use as a Dentin Conditioner, and Dentin-Enamel Primer/Bonding Agent under restorations.

CONTRAINDICATIONS:

This product should not be used where patients have known hypersensitivity to methacrylate monomers. Do not apply on very sensitive teeth or in contact with the pulp.

CAUTION: Enamel Conditioner and Dentin Conditioner contain Phosphoric Acid.

KIT CONTAINS:

- Cat. No. 50-121: Dentin-Enamel Primer/Bonding Agent, 6g
- Cat. No. 50-122: Dentin Conditioner, 7cc
- Cat. No. 50-110: Enamel Conditioner, 13cc
- Accessories & Instructions



Cat. No. 50-120

OUTSTANDING FEATURES OF THE MATERIAL

- Simple and fast application technique
- Versatility - will bond to dentin and enamel margins
- Compatible with all light-cured restorative materials and cements
- Long shelf-life with no need for refrigeration
- Economical in use

PHYSICAL PROPERTIES

PHYSICAL PROPERTIES OF THE PRODUCT		
Property	Specification	Sci-Pharm Results
Ambient Light Sensitivity	**Not less than 60 secs.	>600 secs.
Depth of Cure***	**Not less than 1mm	5.77mm
Flexural Strength***	**Not less than 80 MPa	Not possible to test
Shade	**Match standard closely and be evenly pigmented	Pass
Color Stability	**No more than slight color change	Complies
X-ray Opacity	**Equivalent to the same thickness of aluminum	Not applicable
Water Sorption	**Not more than 40 µg/mm ³	Not tested
Water Solubility	**Not more than 7.5 µg/mm ³	Not tested
***With Optilux 500 curing light (by Demetron) or equivalent, curing time 45 secs.		

NOTE:

Table results are based on ADA (*) and ISO (**) testing and specifications.

Bonding Agent is assigned to be compared to ISO 4049, but is not a restorative alone, and does not have the same characteristics.

INSTRUCTIONS FOR USE

A. Dentin Conditioner

1. Apply Dentin Conditioner by brushing it into the dentin. Extend the application on enamel margins. Leave on for 15-20 seconds.

If a relatively large area of the enamel is involved in the restoration, and in clinical situations where achieving maximum bonding strength to enamel is critical to assure good retention, the enamel should be treated with the enamel conditioner for 20 seconds. In such cases, the use of the dentin conditioner would be restricted primarily to dentin.

2. Rinse well, then dry lightly with a stream of air. Do not desiccate dentin.

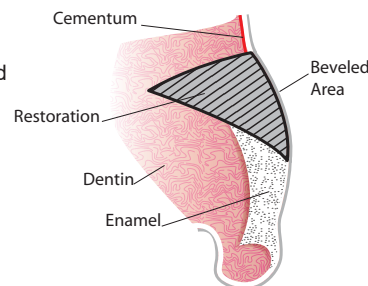
B. Dentin-Enamel Primer/Bonding Agent

Apply primer/bonding agent with a brush in a manner similar to the application of the Dentin Conditioner. Make sure dentin is well wetted. Just placing primer over the dentin may not be enough. Do not rinse off. Keep the area dry; avoid saliva contamination.

Follow with the application of the light-cured restorative material or cement and cure thoroughly. The required curing time may depend on the intensity of the curing light, the thickness of the layer of restorative material or cement, its color and reactivity. Usually a curing time of 40 seconds is enough.

C. Special Hints

When restoring Class V cervical lesions, adjacent enamel margins should be beveled and conditioned as shown on graph. Prior to conditioning, dentin and adjacent enamel should be cleaned with an oil-free pumice/water slurry, rinsed and lightly dried.



CAUTION: The Dentin Conditioner contains 10% Phosphoric Acid and the Enamel Conditioner contains 33% Phosphoric Acid. Avoid contact with mucosa and prolonged contact with dentin. Do not apply on very sensitive teeth or in proximity to the pulp.

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.

CuRAY® Dentin/Enamel Bonding System is compatible with all light curable restoratives and cements. It is particularly compatible with Sci-Pharm brand materials such as:

- **CuRAY-Match® and CuRAY-Mask®:** light-cured flowable (paint-on) restoratives and veneer cements.
- **CuRAY-II®:** light-cured, hybrid-type posterior composite restorative.
- **CuRAY-Dual Match®:** dual-cure inlay and onlay cement.
- **CuRAY-Fil®:** light-cured, hybrid-type composite restorative.
- **CuRAY-Support®:** dual-cure core build-up material.



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Quality Management System Certified to
ISO 13485:2016

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