



# SCI-PHARM®



## ...Chemistry Working for Medicine & Dentistry...

### Fissure Sealer and Bonding Agent, Self-Cured

Cat. No. 50-01

#### CAT. NO. 50-01 (CLEAR KIT) CONTAINS:

- 50-011 Sealer, Part A (Clear), 12.5cc
- 50-012 Sealer, Part B, 12.5cc
- 50-013 Enamel Conditioner, 13cc
- 30-30 Disposable Brushes & Handle
- 30-40 Mixing Wells
- Instructions

#### CAT. NO. 51-01 (OPAQUE KIT) CONTAINS:

- 50-014 Sealer, Part A (Opaque), 12.5cc
- 50-012 Sealer, Part B, 12.5cc
- 50-013 Enamel Conditioner, 13cc
- 30-30 Disposable Brushes & Handle
- 30-40 Mixing Wells
- Instructions



#### CAUTION

Federal Law restricts this device to sale by or on the order of a dentist.

#### INDICATIONS FOR USE:

For use as a Fissure Sealer in a caries prevention program and as a Bonding Agent to improve adaptation of composite restoratives to cavity margins and provide retention in adhesive Class IV 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.

Sci-Pharm's Fissure Sealer and Bonding Agent features low water absorption, assuring resistance to staining and durability in the oral environment. Its simple dispensing system makes application easy and economical.

#### OTHER MATERIALS AVAILABLE FROM SCIENTIFIC PHARMACEUTICALS MATERIAL CHARACTERISTICS

KIT	CONTENTS	MATERIAL CHARACTERISTICS
<b>CuRay-Fil®</b> Light-Cured Multi-Shade Composite Restorative Cat. No. 50-10	25g Restorative in 5 Shades 6g Bonding Agent 13cc Enamel Conditioner Accessories & Instructions	Visible light-cured composite restorative for use in Class I, III, IV and V restorations featuring high polishability and X-ray opacity. Light-cured Bonding Agent included in the kit permits adhesive Class IV incisal edge restorations and assures excellent marginal seal.
<b>CuRay-Match®</b> Light-Cured Paint-On Restorative and Veneer Cement Cat. No. 50-20	15g Restorative in 4 Shades plus Opacuer 6cc Porcelain Conditioner 13cc Enamel Conditioner Accessories & Instructions	A light-cured, paint-on type composite for restoring eroded, hypocalcified, discolored or otherwise deficient human enamel as well as for cementing porcelain or acrylic veneers. Features include unrestricted working time, ease of handling, and excellent aesthetics and durability. CuRay-Match® is also sold in a 1.2g applicator syringe with disposable tips, offering convenient direct-to-the-tooth application. Sixteen shades are available.
<b>Gel Etch™</b> Enamel Etching Agent Cat. No. 70-12	12g Etchant 25 Disposable Tips	A convenient-to-use, non-drying enamel etching agent offering excellent control of application.
<b>Cure-On-Touch P/L®</b> Adhesive Cat. No. 65-02	15g Adhesive 14g Primer 9g Enamel Conditioner Accessories & Instructions	The most popular and versatile type of orthodontic adhesive. Allows for bonding of both metal and plastic brackets.
<b>Sci-Pharm's Universal Varnish</b> Cat. No. 70-03	15cc Varnish	A Dentin Sealer which is easy to apply and provides pulp protection against irritants from restoratives and cements. Minimizes post-operative tooth sensitivity and prevents marginal leakage. Compatible with all types of restorative materials and cements.
<b>MicroJoin®</b> Crown & Bridge Adhesive/Cement Cat. No. 50-25	20g Cement 15cc Dentin Sealer 3g Enamel Conditioner	A permanent cement for conventional and bonded restorations; suitable for use on vital and non-vital teeth.
<b>CuRay-Eclipse®</b> Light-Cured Orthodontic Adhesive Cat. No. 60-05	20g Adhesive 7g Enamel Primer 13cc Enamel Conditioner Accessories & Instructions	Reliable and easy-to-use Orthodontic Bracket Cement, offering virtually unlimited working time, long shelf-life and low sensitivity to storage conditions.



For technical information, call or write:



Quality Management System Certified to  
**ISO 13485:2016**

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**GENERAL INFORMATION**

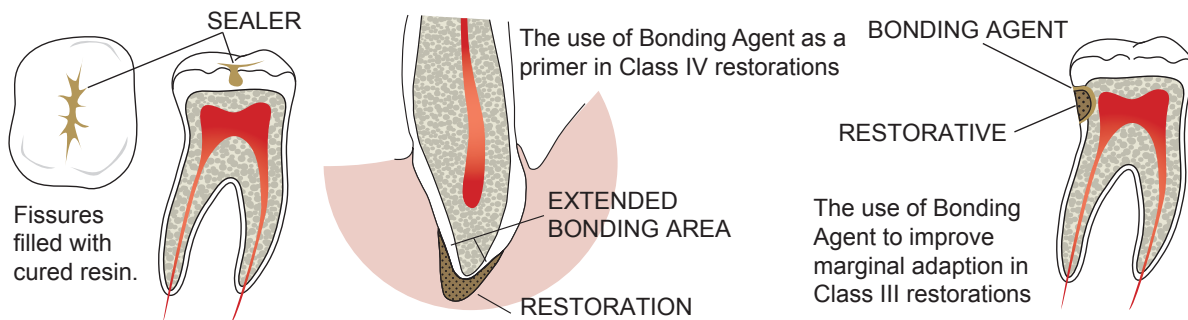
The use of Fissure Sealers to reduce the incidence of occlusal caries is well described in dental literature. Also, the use of liquid self-curing resins as primers for bonding composite restoratives to conditioned (etched) enamel has become a well-recognized and recommended procedure in dentistry. Application of a Bonding Agent provides better marginal adaptation (thus reducing the incidence of secondary caries) and allows "adhesive" restorations which rely on bonding forces rather than on mechanical retention. Class IV restorations made of composite restoratives with liquid bonding agents as enamel primers have gained overwhelming acceptance among clinicians.

Sci-Pharm's *Fissure Sealer and Bonding Agent* represents an advanced formulation that is equally proficient in both applications. It features low shrinkage, high stain resistance, low water absorption, and a convenient application system.

This resin-based material is recommended for use as a Fissure Sealer in a caries prevention program. It may also be used as a Bonding Agent to improve adaptation of composite restoratives to cavity margins and to provide retention in "adhesive" Class IV restorations.

The Clear version is preferred for use as a Bonding Agent while the Opaque version is preferred for use as a Pit and Fissure Sealer.

**EXAMPLES OF APPLICATION**



**INSTRUCTIONS FOR USE**

1. After prophylaxis, wash and dry the tooth (teeth) and apply Enamel Conditioner with a cotton pledget on enamel only. CAUTION: Avoid contact with soft tissue or exposed dentin. If accidental spill occurs, wash immediately.
2. Wait 30-45 seconds. Wash the tooth and evacuate. Dry with oil-free air or any commercial dental drying agent. Properly conditioned (etched) teeth should have a dull chalky appearance. Highly mineralized teeth may require an additional two-minute etch to achieve this effect.
3. Dispense an equal number of drops of Part A and Part B liquids into a mixing well and stir immediately with a disposable brush. Apply a thin layer of this mix over the dry, etched enamel. If the material is used as a fissure sealer, apply enough of the material to fill the fissure without, however, interfering with the occlusion. Working time is approximately 90 seconds from the start of mixing. The sealer will set in approximately 2.5 minutes. IMPORTANT: Maintain a dry field at all times during application and until the material sets.
4. A) When material is used as Fissure Sealer: After the Sealer sets, wipe the surface with a cotton pledget in order to remove the very thin film of uncured material remaining on the surface (the result of oxygen inhibition). Rinse and check the occlusion.  
 B) When material is used as Bonding Agent: Follow immediately by inserting the composite restorative. Do not wipe off the uncured surface layer of Bonding Agent.

**PHYSICAL PROPERTIES**

PHYSICAL PROPERTIES OF THE PRODUCT		
Property	Specification	Sci-Pharm Results
Working Time at 23°C (73°F)	**Not less than 40 seconds	100 seconds
Setting Time 37°C (98.6°F)	**Not more than 5 minutes	2.5 minutes

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

**HELPFUL HINTS**

1. Re-examination every six months after application of Fissure Sealer is recommended. In order to reapply, polish the tooth with a sanding disc and apply Sealer following the procedure described above.
2. When sealing fissures, preferably work with one quadrant at a time.
3. For aesthetic reasons, the Clear version is the recommended choice for use as a Bonding Agent.

**STORAGE AND SHELF-LIFE**

Store at temperatures not exceeding 73°F (23°C). When stored under such conditions, the material has a shelf-life of 2 years. Refrigerate when the material is not in use (for example, overnight and on weekends). When cold, the material has a thicker consistency. For easier handling, remove from refrigerator at least 15 minutes prior to use.