



Manufactured in U.S.A. by:

# SCI-PHARM



## FLUOROSEAL®

Light-Cured Cavity Liner  
Sci-Pharm Catalog Nos. 75-03,  
75-13 & 75-035

### TECHNICAL BULLETIN

#### Instructions

# FLUOROSEAL®

## Light-Cured Cavity Liner

Recommended for enforcing floor of the cavity and lining cavity walls prior to application of filling materials.

#### INDICATIONS FOR USE:

Recommended for re-enforcing floor of the cavity and lining cavity walls prior to application of filler materials.

#### CONTRAINDICATIONS:

This product should not be used where patients have known hypersensitivity to methacrylate monomers.

#### KIT CONTAINS:

- Cat. Nos. 75-03 and 75-031: Dentin Shade Kit with 2 Syringes of Dentin Shade Liner, 7.5g each
- Cat. Nos. 75-13 and 75-131: Contrast Shade Kit with 2 Syringes of Contrast Shade Liner, 7.5g each
- Cat. No. 75-035: Direct Application Syringe Kit with 1 Luer-Lock Syringe of Dentin Shade Liner, 1.5g
- 5 Disposable Tips, 20-gauge each



Cat. Nos. 75-03, 75-13



Cat. No. 75-035

### OUTSTANDING FEATURES OF THE MATERIAL

#### PHYSICAL PROPERTIES

PHYSICAL PROPERTIES OF THE PRODUCT		
Property	Specification	Sci-Pharm Results
Ambient Light Sensitivity	**Not less than 60 seconds	90 seconds
Depth of Cure***	**Not less than 1.5 mm	1.83 mm
Flexural Strength***	**Not less than 50 MPa	171.91 MPa
Opacity/Translucency Factor (C <sup>70</sup> )	*0.35 - 0.55	0.40
X-ray Opacity	**Equivalent to the same thickness of aluminum	Complies
Water Sorption	**Not more than 40 µg/mm <sup>3</sup>	47.46 µg/mm <sup>3</sup>
Water Solubility	**Not more than 7.5 µg/mm <sup>3</sup>	6.1 µg/mm <sup>3</sup>
***With Optilux 500 curing light (by Demetron) or equivalent, curing time 45 seconds		

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

- Fast and easy to apply
- Economical in use
- Compatible with all commercially available restoratives & cements
- Mechanically strong & virtually insoluble in oral fluids
- Contains fluoride
- Shelf-life of 2 years; no refrigeration needed
- X-ray opaque
- Available in two versions: Dentin & Contrast Shades
- Alternative delivery system offers convenient direct-to-the-tooth application

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#### CAUTION

**GENERAL INFORMATION**

*FluoroSeal*<sup>®</sup> is a visible light-cured cavity liner having a flowable consistency which facilitates application. This material primarily consists of a biocompatible light-curable resin, filled with hydroxyapatite, barium sulfate and fluoride salts.

*FluoroSeal*<sup>®</sup> is compatible with all commercially available restorative materials and cements. When used under water-based cements, however, wiping the surface of cured *FluoroSeal*<sup>®</sup> with a cotton pledget moistened with alcohol is recommended in order to remove any traces of uncured resin. *FluoroSeal*<sup>®</sup> should be applied over conventional self-cured dental bases in case of direct pulp exposure.

*FluoroSeal*<sup>®</sup> is available in two types of dispensing syringes:

- Economy-size 7.5 gram syringe
- 1.5 gram syringe, allowing for placement of the material directly on the tooth through a 20-gauge disposable tip

**INSTRUCTIONS FOR USE**

1. Prepare the cavity in a conventional manner.
2. Rinse the cavity and dry.
3. (a) If using an economy size 7.5 gram syringe, dispense *FluoroSeal*<sup>®</sup> onto a pad. After dispensing, pull the handle back slightly to reverse flow. Apply the material over the dentin, preferably using a ballpoint applicator.

**CAUTION: Shield the dispensed material from bright light before use.**

- (b) If using a 1.5 gram syringe, apply the material directly over the dentin through a disposable applicator.
4. The first coating should be no more than 0.3 - 0.5 mm thick. Remove any material inadvertently applied over enamel margins.
5. Cure for 20 seconds (30 seconds if the light is of lower intensity), keeping the tip as close to the cured surfaces as possible.
6. Apply a second layer, if indicated. The second layer can be up to 1.5 mm thick. Cure for 30 seconds.

**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.

**WARNING: Avoid prolonged contact of uncured *FluoroSeal*<sup>®</sup> with skin or gingiva. Wash thoroughly if such contact occurs.**

*FluoroSeal*<sup>®</sup> is available in the following commercial forms:

<u>ITEM</u>	<u>CATALOG NO.</u>
Dentin Shade Kit, 15g (Material in Two 7.5g Syringes)	75-03
Dentin Shade, 7.5g (One Individual Syringe)	75-031
Contrast (White Opaque) Shade Kit, 15g (Material in Two 7.5g Syringes)	75-13
Contrast (White Opaque) Shade Kit, 7.5g (One Individual Syringe)	75-131
Dentin Shade, 1.5g (One Syringe), Plus Five Disposable Tips	75-035

**OTHER OUTSTANDING SCI-PHARM MATERIALS**

**CuRay-Fil**<sup>®</sup> A highly filled light-cured anterior/posterior composite restorative. Provides outstanding depth of cure; excellent marginal adaptation and aesthetics. Eleven available shades.

**CuRay-Match**<sup>®</sup> A light-cured, paint-on (flowable) restorative and veneer cement. Highly polishable with outstanding aesthetics, color stability, durability and versatility. Available in economical 3g syringes and in 1.2g syringes, offering convenient direct-to-the-tooth application.

**CuRAY-II**<sup>®</sup> A posterior restorative. Highly (90% by weight/filled) optimized consistency for posterior applications. Packaged in unidose 0.35g carpules. Four shades available.



**Qarad EC - REP BV**  
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*For technical information, call or write:*

*Quality Management System Certified to*

**ISO 13485:2016**



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