



SCOFIELD® Epoxy Primer

A two-component epoxy designed for use as a primer on interior concrete subfloors prior to the installation of SCOFIELD® Overlay™ or SCOFIELD® Texturetop® cementitious toppings.

TECH-DATA BULLETIN C-914.01

1. Product Description:

SCOFIELD® Epoxy Primer, combined with a silica sand broadcast, is applied to interior concrete subfloors prior to installing SCOFIELD Overlay or any of the SCOFIELD Texturetop family of products. The SCOFIELD Epoxy Primer/sand system forms an effective bond between the subfloor and the cementitious topping. The epoxy primer seals the subfloor and prevents water loss from the topping into the porous subfloor, improving the leveling performance and appearance of the cured topping surface. The embedded sand provides a high-strength mechanical bond between the epoxy primer and the Overlay or Texturetop topping.

2. Coverage:

The coverage rate of SCOFIELD Epoxy Primer is approximately 160 square feet per gallon per coat (4 m²/L) to achieve the necessary 10 mil (0.25 mm) thickness.

3. Limitations:

SCOFIELD Epoxy Primer must not be used when the air temperature, product temperature or substrate is below 50° F (10° C) or above 90° F (32° C). All subfloors and concrete flatwork must be thoroughly clean and dry and at least 28 days of age. Failure to remove all contaminants and coatings that impede the bond of the primer system to the surface will cause adhesion loss between the subfloor or concrete flatwork and the topping. Failure to completely prime porous subfloors or concrete flatwork will result in pinholing and water loss during installation of the fluid topping material, causing appearance defects and reduced workability and performance. SCOFIELD Epoxy Primer must be completely covered with a layer of partially embedded sand in order to function as a primer system. Failure to completely cover the epoxy primer with embedded sand will result in adhesion failure between the primer and the topping material.

Primed interior floors must be kept clean, dry, and protected from traffic and abrasion. Primed subfloors exposed to water must be dried completely prior to topping installation. SCOFIELD Epoxy Primer is not for exterior use.

4. Composition and Materials:

SCOFIELD Epoxy Primer is a two-component liquid polymer system in a convenient 1:1 volume ratio.

5. Applicable Standards:

Professional preparation and installation standards and practices, including those published by the International Concrete Repair Institute (ICRI), the American Concrete Institute (ACI), the Portland Cement Association (PCA), and the American Society for Testing and Materials (ASTM), should be followed.

SCOFIELD Epoxy Primer complies with all applicable air quality management regulations, including those restricting VOC content to less than 200 g/L.

6. Technical Data:

Product Specifications	
PART A CHARACTERISTICS Light amber liquid Weight per gallon—7.96 lb	PART B CHARACTERISTICS Clear liquid Weight per gallon—9.2 lb
DATA FOR MIXED PART A & PART B—1:1 BY VOLUME Viscosity: 70 KU VOC: 157 g/L (1.31 lb/gal) Pot life: 15–20 minutes at 65° F (18° C)	

7. Sizes:

SCOFIELD Epoxy Primer is available in 2-gallon kits consisting of one gallon each of Part A (Activator) and Part B (Base).

8. Storage and Shelf Life:

When stored in the original unopened containers, below 90° F (32° C), the shelf life of SCOFIELD Epoxy Primer Part A and Part B is 1 year from the date of purchase. Inventory must be rotated to maintain product that is within shelf life limits.

9. Cautions:

WARNING!

VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF SWALLOWED. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

Contains: 4-Nonyl Hydroxybenzene, Nonylphenol, Limonene, Diethylene Triamine, DETA, Aliphatic Amine, Bisphenol A–Epichlorohydrin Copolymer and Alkyl Glycidyl Ether. **Use only with adequate ventilation.** Avoid breathing vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear a properly fitted P100/organic vapor respirator (NIOSH TC-84A approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing.

First Aid: Eyes—DO NOT RUB EYES. FLUSH IMMEDIATELY WITH WATER. Hold eyelids apart while flushing material out thoroughly with large amounts of water. Get medical attention immediately. **Skin—Wash thoroughly with soap and water.** Remove soiled clothing and footwear and wash before reuse. **Inhalation—If you experience difficulty in breathing, leave the area to obtain fresh air.** If continued difficulty is experienced, get medical attention immediately. **Ingestion—If swallowed, do not induce vomiting.** Get medical attention immediately.



If symptoms persist or develop or if ingested, get medical attention. Wash thoroughly immediately after handling. Close container after each use.

Spills or leaks: Contain spill. Absorb with inert material. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Do not reuse empty container. Before using or handling, read the *Material Safety Data Sheet and Warranty*.

10. Equipment and Materials:

When using equipment and materials during preparation and installation, suitable protective gear should be worn and government regulations, manufacturer's instructions, and all applicable safety requirements should be followed.

For filling or sealing surface defects on interior subfloors, SCOFIELD® Slimpatch™ or SCOFIELD® Thickpatch™ can be used. These products must be allowed to dry completely prior to application of the primer system. Additional information is available in Scofield's Tech-Data Bulletins C-604 SCOFIELD Slimpatch and C-614 SCOFIELD Thickpatch.

For mixing, a metal mixing blade with a flat bottom sized to match the mixing vessel (Jiffy Mixer from the Midwest Rake Company, 800-815-7253) fitted onto a heavy-duty, 1/2-inch (13 mm), variable-speed drill must be used. The drill motor must be capable of mixing at approximately 650 rpm under load. Mix in a container of a suitable size, usually a 3 to 5 gallon pail.

For application, use a flexible, solvent-resistant, 3/16-inch red rubber notched squeegee (available from the Midwest Rake Company, 800-815-7253), roller or brush.

11. Subfloor or Substrate Preparation:

Refer to Scofield's Tech-Data Bulletin C-504 SCOFIELD Overlay or the Tech-Data Bulletin for any of the SCOFIELD Texturetop family of products for detailed preparation instructions and Moisture Vapor Emission Rate (MVER) requirements.

12. Mixing:

Precondition the SCOFIELD Epoxy Primer components to be within a temperature range of 60–80° F (16–27° C) prior to mixing. Higher temperatures cause a significant reduction in pot life of the mixed epoxy. Lower temperatures cause the mixed epoxy to become thick.

Stir Part A and Part B separately in their containers before mixing together. Then transfer the full contents of Part A and Part B or equal volumes of each into the mixing container. Mix only an amount of epoxy primer that can be applied at the required 10 mil (0.25 mm) film thickness over the prepared floor comfortably within the available pot life of the mixed epoxy.

Thoroughly power-mix the combined Part A and Part B material for 3 minutes. The resulting mixed epoxy primer should appear uniform after proper mixing. Do not use mixed epoxy that has started to thicken. Discard the gelled material and mix a fresh batch.

13. Application:

To apply SCOFIELD Epoxy Primer, pour mixed material directly onto the concrete surface and spread using a notched squeegee or brush, then back-roll with a high quality short-nap roller uniformly over the entire surface of the concrete subfloor at a coverage rate of 160 square feet per gallon (4 m²/L). Dry, 20–40 mesh silica sand should be immediately broadcast onto the wet epoxy primer in sufficient amounts to completely cover the surface, approximately 1 pound of sand for each square foot of surface. When broadcasting, the sand should fall into the epoxy primer to minimize rolling and other imperfections.

Allow the epoxy primer and applied sand to cure for at least 16 hours. Sand that is not bonded to the primer is swept up with a broom and then a power vacuum is used to pick up any remaining loose sand. Sweeping without vacuuming will not adequately remove loose sand. Any bare areas (without sand) that are observed after vacuuming loose sand must be recoated with freshly mixed SCOFIELD Epoxy Primer and have sand reapplied. The topping material must be applied immediately after removing excess sand to minimize contamination of the new bonding surface.

14. Availability:

SCOFIELD Epoxy Primer is marketed nationwide and internationally, directly to the user and through strategically located warehouses, dealers, and representatives. Contact Scofield for its nearest representative.

Scofield offers a complete line of engineered systems for coloring, texturing, and improving performance in architectural concrete. Scofield Systems address specialized requirements for interior, exterior and vertical uses with compatible systems of complementary products including coloring admixtures, color hardeners, colored cementitious toppings, stains, curing compounds, sealers, coatings, repair products and texturing tools. Visit the Scofield website at www.scofield.com for further information.

15. Warranty Summary:

For the complete warranty statement and important limitations, read the *Material Safety Data Sheet and Warranty*. Generally, Scofield represents and warrants only that its products are of consistent quality. No other oral or written statement is authorized. Any liability is limited to refund or replacement of defective product. The end user shall determine product's suitability and assume all risks and liability.



1 800 800 9900 or www.scofield.com

SCOFIELD PRODUCTS ARE INTENDED FOR PROFESSIONAL USE ONLY

L. M. Scofield Company customer service: 1 800 800 9900

Western Headquarters: 6533 Bandini Blvd., Los Angeles, CA 90040 **voice:** 323 720 3000 **fax:** 323 720 3030

Eastern Headquarters: 4155 Scofield Road, Douglasville, GA 30134 **voice:** 770 920 6000 **fax:** 770 920 6060

www.scofield.com