

# 3M™ Scotchkote™ Epoxy Sealer SP 810

## Data Sheet and Application Guide

### Product Description

Scotchkote Epoxy Sealer SP 810 has been specifically developed as a low viscosity primer/sealer for concrete and cementitious surfaces prior to application of other Scotchkote epoxy systems.

### Product Features

- Combines good application characteristics with excellent penetration and adhesion.
- Designed for application by brush or roller.
- Designed for use on concrete surfaces but can be used on other porous mineral substrates.

### General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Abrade the surface using abrasive blasting techniques for concrete or by diamond grinding and remove any residual dust.
3. Apply Scotchkote Epoxy Sealer SP 810 to completely seal the surface.
4. Allow to cure.
5. Visually inspect the coating for defects.
6. Repair all defects.

### Properties

Updated  
Supersedes

July 2016  
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Property	Value
Colour	Clear
Ratio	2:1 By volume
<b>Drying &amp; Cure times at 20°C (68°F)</b>	
Usable Life	30 minutes
Touch Dry	2 hours
Hard Dry	16 hours
Minimum Overcoating*	2 hours
Maximum Overcoating	24 hours
*Note: When used as a tack primer for 3M™ Scotchkote™ Epoxy Screed RS 820 this is the maximum overcoating time	
Full Cure	7 days
Volume Solids	100%
Specific Gravity	1.1
(Average Mixed) V.O.C	Nil
Film Thickness (Typical)	Wet/Dry 100 microns.
Note: The actual thickness to be applied will depend on the porosity of the substrate, however the product must be applied to seal the surface and may be higher or lower than the quoted typical value. Detailed system recommendations are available on request..	
Theoretical Coverage Rate	9.2 sq metre per kg at 100 microns dft.
<b>Performance Data</b>	
Elongation	34% (ASTM D412)
Direct Pull Adhesion	6Mpa (900 psi) - Steel 3.5Mpa (500 psi) - Concrete (Concrete Failure) (ASTM D4541)
Tensile Strength	33Mpa (4785 psi) (ASTM D412)
Scratch Resistance	No Failure 2.5kg (5.5lbs) load (BS 3900 Part E2)
Hardness (Shore D)	95 (ASTM D2240)



# Application Procedures for Scotchkote Epoxy Sealer SP 810

## Surface Preparation

New concrete surfaces should be lightly abrasive blast cleaned, scarified or mechanically abraded to remove laitence and any curing membrane which may be present. Resultant dust and debris should be removed by sweeping or vacuum cleaning.

Existing concrete surfaces should be high pressure detergent washed to remove all dirt, oil and grease, heavy oil contamination may require sweating and burning out. Surfaces should now be cleaned by abrasive blasting or scarifying. All dust and resulting debris should be removed by sweeping or vacuum cleaning.

Prior to coating, the concrete should be dry and the moisture content should be checked using a proprietary surface moisture indicator such as an Elcometer 7420 Digital Moisture Meter. When tested in accordance with the manufacturers instructions the reading should be classified as 'dry'.

## Product Mixing

Part A (Base) should be stirred, and whilst continuing stirring the contents of the Part B (Activator) container should be added and mixed until completely homogenous. The use of a slow speed mechanical mixer is advisable to ensure complete mixing.

**To produce a fluid 'self-levelling' material:** 1 unit Scotchkote Epoxy Primer SP 810 (2.0kg) should be mixed with clean, dry gravel/silica sand mix.

**To produce an economical fill material:** 1 unit Scotchkote Epoxy Primer SP 810 (2.0kg) should be mixed with 30-35kgs of ¼" clean, dry gravel/silica sand mix.

The use of mechanical mixers is advisable when mixing self-levelling or filler mixes.

## Application Procedures

### Handling and Safety Precautions

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

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## Important Notice

All statements, technical information and recommendations are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using the 3M™ Scotchkote™ Product, you must evaluate it and determine if it is suitable for your intended application. Because conditions of product use are outside of 3M control's and vary widely you assume all risks and liability associated with such use. Any product related statements not contained in current 3M publications, or any contrary statements contained in your purchase order, shall have no force or effect unless expressly agreed to in writing by an authorised officer of 3M.

### Warranty; Limited Remedy; Limited Liability.

3M warrants that the 3M™ Scotchkote™ Product will conform to 3M published specifications upon shipment. If the product is proven not to have met the specifications your exclusive remedy within 12 months of sale by 3M of the product and 3M's sole obligation will be, at 3M's option, to replace the Product or to refund the purchase price of the Product. Except where prohibited by law, this warranty is made in lieu of all other warranties, express or implied, including, but not limited to, any implied warranty of suitability or fitness for a particular purpose, or those arising from a course of dealing, custom or usage or trade.

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The product should not be applied when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point. Application is best carried out when surfaces are above 10°C

**Priming / Sealing:** The product is intended for application by brush or roller, and should be applied to give a uniform even thickness to completely seal the surface, avoiding ponding.

If a second coat is required for any reason, overcoating must be carried out within 24 hours of application of the preceding coat. If the overcoating time is extended thorough mechanical abrading or flash blasting of the first coat should be carried out once the coating is hard dry.

**Self Levelling Screed:** The Scotchkote Epoxy Primer SP 810 / dry gravel/silica sand mix should be poured onto the prepared surface and spread out using a saw toothed float.

**Filling:** The Scotchkote Epoxy Primer SP 810 / filler should be mixed, poured on the area to be repaired then finished with a float or trowel.

All equipment must be cleaned IMMEDIATELY after use with 3M™ Scotchkote™ Cleaner 020.

## Packaging and Storage

Supplied separately in 2 kg, 5 kg and 20 kg packs.

Use within 5 years of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C.

## Ordering Information/Customer Service

For ordering, technical and product information or to request a copy of the Material Safety Data Sheet, call +44 (0)1609 780170  
For emergencies, please contact +44 (0)1344 858000.

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