

3M™ Scotchkote™ Urethane Sealer 165CS

Data Sheet and Application Guide

Product Description

Scotchkote Urethane Sealer 165CS has been specifically developed as a low viscosity primer/sealer for concrete and cementitious surfaces prior to application of other Scotchkote urethane coating 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 Urethane Sealer 165CS to completely seal the surface.
4. Allow to cure.
5. Visually inspect the coating for defects.
6. Repair all defects.

Properties

| Property | Value |
|---|----------------------|
| Colour | Translucent Brown |
| Ratio | 2:1 By volume |
| Drying & Cure times at 20°C (68°F) | |
| Usable Life | 30 minutes |
| Touch Dry | 3 hours |
| Hard Dry | 5-6 hours |
| Overcoating; Minimum | 3 hours |
| Maximum | 24 hours |
| Full Cure | 7 days |
| Volume Solids | 100% |
| Specific Gravity (Average Mixed) | 1.1 |
| 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 application instructions in the form of System Application Guides are available on request.

| | |
|---------------------------|---|
| Theoretical Coverage Rate | 10 sq metre per litre at 100 microns dft. |
|---------------------------|---|

Performance Data

| | |
|----------------------|---|
| Abrasion Resistance | 180mgm weight loss per 1000 cycles - 1kg load - CS17 wheel (ASTM D4060) |
| Direct Pull Adhesion | 6.2 Mpa (900 psi) - Steel 3.5 Mpa (500 psi) - Concrete (Concrete Failure) 3.5 Mpa (500 psi) - Asphalt (Asphalt failure) |
| Tensile Strength | 10.8 Mpa (1565 psi) (ASTM D412) |



Application Procedures for Scotchkote Urethane Sealer 165CS

Surface Preparation

Concrete surfaces should be lightly abrasive blasted or mechanically scarified, taking care not to expose the aggregate. All dust and loose residue should then be removed. 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.

Application Procedures

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

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.

Clean all equipment immediately after use with 3M™ Scotchkote™ Thinners PU71.

Packaging and Storage

Supplied separately in 3 litre and 15 litre packs.

Use within 2 years of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C.

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.

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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Electrical Markets Division (EMD)

3M United Kingdom plc
23 Standard Way Industrial Estate
Northallerton
North Yorkshire DL6 2XA
United Kingdom
Phone: +44 (0)1609 780170
www.3M.co.uk/scotchkote

Electrical Markets Division (EMD)

3M United Kingdom plc
3M Centre
Cain Road, Bracknell
Berkshire RG12 8HT
Phone: 01344 858000
Fax: 01344 857970
www.3M.co.uk

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