

3M™ Scotchkote™ Poly-Tech CSM 658

Data Sheet and Application Guide

Product Description

Scotchkote Poly-Tech CSM 658 is an elastomeric water based acrylic coating specifically developed to provide a waterproofing membrane on all types of roof surfaces.

Product Features

- Combines good application characteristics with fast drying capabilities.
- Can be applied to most surfaces over an appropriate primer.
- Outstanding weatherproofing and waterproofing properties.
- Provides a minimum of 10 years protection.

General Application Steps

1. Remove loosely adhering deposits.
2. Apply the appropriate primer and allow to dry.
3. Treat all joints and seams.
4. Apply first coat of Scotchkote Poly-Tech CSM 658 including reinforcing sheet.
5. Apply second coat of Scotchkote Poly-Tech CSM 658

Properties

Property	Value
Colour	White, Light Mid and Dark Grey, Stone, Mid Green, Black, Copper Green
Drying & Cure times at 20°C (68°F)	
Touch Dry	1-2 hours
Minimum Overcoating	2-4 hours
Maximum Overcoating	Indefinite provided surface is clean
Shower Resistant	30 mins
Water Resistant	2 hours
Volume Solids	60%
V.O.C (As Supplied)	Nil
Film Thickness	(unreinforced) 300 microns wet, 180 microns dry.
Theoretical Coverage Rate	3.3m ² / litre at 180 microns dft. (unreinforced)
Performance Data	
Water Vapour Permeability	1x10 ⁻⁴ perm.cm (ASTM E96)
Tensile Strength	4.2Mpa (600 psi) (ASTM D412)
Elongation	150% (ASTM D412)
Tear Strength	9.6N/mm (55 pli) unreinforced 16.6N/mm (95 pli) reinforced (ASTM D624)
Ozone Resistance	No Cracking (160 hours/110 ppm at 40°C) (ASTM D1149)



Application Procedures for 3M™ Scotchkote™ Poly-Tech CSM 658

Surface Preparation

The Scotchkote Poly-Tech CSM 658 system should only be applied to structurally sound roof areas. On flat roofs which have been dressed with large or medium size chippings, these must be removed prior to application. A mechanical flail should be used to remove the chippings and then the area swept down to remove all loose dirt and dust. On asphalt roofs, blisters should be cut out and the void filled with polymer concrete screed. On felt roofs, severe blisters should be cut open and bonded flat.

Any areas of moss or lichen growth should be treated with a proprietary fungicidal wash in accordance with the manufacturers instructions.

Any surface to be protected must be clean, dry and firm, and this is especially important with metallic, glass or plastic surfaces.

At any wide joints (such as joints on corrugated roofs or poor fitting flashings) or where excessive movements can be expected (such as valley gutter joints) it is advisable to apply 3M™ 1900 Duct Tape over these areas. Lay the tape over the joint and press down firmly, following the contour as far as possible. Finally, ensure the edges of the tape are pressed down to be flush with the surface. 3M™ Scotchkote™ Premier Reinforcing Mat 050 should now be used as a reinforcement membrane over treated movement joints.

Application Procedures

Priming

Bituminous and Porous Surfaces: Surfaces should be primed with 3M™ Scotchkote™ Poly-Tech BP Primer 656. Detailed application procedures are given on the product data Sheet.

Glass and Previously Painted Surfaces: Surfaces should be primed with 3M™ Scotchkote™ Epoxy Primer 830. Detailed application procedures are given on the product data sheet

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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Metal Surfaces: Surfaces should be primed with 3M™ Scotchkote™ Epoxy Primer MC 135. Detailed application procedures are given on the data Sheet. For coverage rates of primers refer to the appropriate primer tech sheet.

Applying the System

Scotchkote Poly-Tech CSM 658 should not be applied below 5°C, when rain is falling or when rain is imminent, or when humidity exceeds 90%. In winter months due consideration must be given to the early onset of condensation formation in early afternoon and application should be discontinued well before this time.

The Scotchkote Poly-Tech CSM 658 system is a two coat system incorporating 3M™ Scotchkote™ Premier Reinforcing Mat 050 in the first coat. The reinforcing mat should be secured into the Scotchkote Poly-Tech CSM 658 immediately after application where necessary. The reinforcing must follow the contour of the surface and must not be pulled or stretched to leave hollow areas. Scotchkote Poly-Tech CSM 658 should then be brushed/rolled through the reinforcing, keeping the thickness of the coating as even as possible and no thicker than is required to wet down the reinforcing. The second coat of Scotchkote Poly-Tech CSM 658 should then be applied using a good quality brush or roller a minimum of 2-4 hours after the first coat. The minimum overcoating interval will depend upon the roof temperature and drying conditions. Provided the first coat is clean there is no maximum overcoating time. Do not apply Scotchkote Poly-Tech CSM 658 beyond the areas coated with primer. Adjacent widths of reinforcing should allow 1-2 cm overlap. Scotchkote Poly-Tech CSM 658 can also be applied by large capacity airless spray for details contact the 3M Northallerton Technical Centre.

Packaging and Storage

Supplied in 20 litre units.

Use within 24 months of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C.

ALWAYS PROTECT FROM FROST DURING STORAGE AND 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 or fax +44 (0)1609 783762 (Sales) or 788718 (Technical).

For emergencies, please contact +44 (0)1344 858000.

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