

3M™ Scotchkote™ Poly-Tech EC 661

Updated
Supersedes

September 2015
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Data Sheet and Application Guide

Product Description

Scotchkote Poly-Tech EC 661 is an elastomeric solvent based moisture triggered urethane specifically developed as the first/embedment coat of a high performance waterproofing membrane for use on all types of roof surfaces, which can be applied in low temperatures.

Product Features

- Combines good application characteristics with fast drying capabilities.
- Outstanding weatherproofing and waterproofing properties.
- When used in combination with 3M™ Scotchkote™ Poly-Tech UV 662 can provide systems capable of at least 25 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 Scotchkote Poly-Tech EC 661 including reinforcing sheet as required.
5. Apply Scotchkote Poly-Tech UV 662.

Properties

Property	Value
Colour	Black
Drying & Cure times at 20°C (68°F)	
Touch Dry/Waterproof	2-3 hours
Minimum Overcoating	6-8 hours
Maximum Overcoating	Indefinite provided surface is clean
Volume Solids	77%
V.O.C (As Supplied)	190g/litre
Coverage Rate	Ranges from 1 litre/m ² to 2litre/m ² depending on requirements.
Performance Data Combined System with EC662	
Water Vapour Permeability	2x10 ⁻⁴ perm.cm (ASTM D1653)
Tensile Strength	4.77N/mm ² (700 psi) (ASTM D638)
Elongation	200% (ASTM D412)
Tear Strength	19.1N/mm (ASTM D624)
Fire Performance (Tested on full Poly-Tech EC 661/UV 662 system)	Spread of Flame EXT.F.AA and EXT.S.AA Fire Penetration EXT.F.AA and EXT.S.AA (BS476 Part 3)



Application Procedures for Scotchkote Poly-Tech EC 661

Surface Preparation

The Scotchkote™ Poly-Tech EC 661 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 manufacturer's instructions.

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

Any areas subject to movement (such as cracks, joints, overlaps, seams, poor fitting flashings or valley gutter joints etc) it is advisable to apply 3M™ 1900 Duct Tape over these areas. The tape should be laid over the joint and pressed firmly onto the surface, ensuring the edges of the tape are firmly adhered.

Application Procedures

Priming

Bituminous and Felt Surfaces: No primer needed.

Wood, Concrete and Asbestos Surfaces: Surfaces should be primed with 3M™ Scotchkote™ Urethane Primer FB 856. Detailed application procedures are given on the data Sheet.

Previously Painted Surfaces: Surfaces should be primed with 3M™ Scotchkote™ WB Epoxy Primer GP830. 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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Copper and Ferrous 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 EC 661 should not be applied when rain is falling or when rain is imminent, or when surfaces are less than 3° above the dew point, surfaces must be free of visible moisture.

The product can be applied in all weather conditions except falling rain / snow but must not be applied over ice.

The Scotchkote Poly-Tech EC 661 is the first coat of a two coat system which usually includes 3M™ Scotchkote™ Premier Reinforcing Mat 050 or 3M™ Scotchkote™ Premier Plus Reinforcing Mat 055. The reinforcing mat should be secured into the Scotchkote Poly-Tech EC 661 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 EC661 should then be brushed/rolled through the reinforcing, keeping the thickness of the coating as even as possible in accordance with the required coverage. The minimum overcoating interval will depend upon the roof temperature and drying conditions but is typically 6-8 hours. Provided the surface is clean there is no maximum overcoating time.

Packaging and Storage

Supplied in 12.5 litre units.

Use within 9 months 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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