

3M™ Scotchkote™ Urethane Wall Coating UV 843

Data Sheet and Application Guide

Product Description

Scotchkote Urethane Wall Coating UV 843 is a member of a range of Scotchkote™ waterborne coatings and has been specifically developed to provide a durable finish for use on internal and external surfaces.

Product Features

- Combines good application characteristics with excellent gloss and colour retention.
- Being water borne does not present the same handling and application health and safety risks associated with solvent based high performance finishes.
- Tested for limited fire hazard performance in conjunction with 3M™ Scotchkote™ WB Epoxy Primer GP 830.

Abrasion Good resistance to abrasion and mechanical damage.

Adhesion Excellent on correctly prepared and primed surfaces.

Chemical Resistance The fully cured coating offers excellent resistance to aqueous solutions, oils, fats and a wide range of industrial chemicals.

Temperature resistance Dry service temperature range up to 100°C.

General Application Steps

1. Ensure primed surface is clean, dry and free from contamination.
2. Apply Scotchkote Urethane Wall Coating UV 843 Wall Coating at the specified thickness.
3. Allow to cure.
4. Visually inspect the coating for defects.
5. Repair all defects.

Properties

Property	Value
Colour	Manufactured to order from a select range of BS or RAL colour standards also available in clear.
Ratio	3.5:1 By volume
Drying & Cure times at 20°C (68°F)	
Usable Life	1½ hours
Touch Dry	4 hours
Hard Dry	16 hours
Overcoating Minimum	4 hours
Maximum	48 hours
Full Cure	7 days
Volume Solids	50%
Specific Gravity (Average Mixed)	1.14
V.O.C (As Supplied)	115g/litre
Film Thickness (Typical)	Wet 100 microns. Dry 50 microns
Theoretical Coverage Rate	10sq metres per litre at 50 microns dft.
Performance Test Data	
BS476 – 7 Class 1 Surface Spread of Flame	(When used in conjunction with Scotchkote Epoxy Primer GP 830)
BS476 – 6 Class 0 in accordance with UK Building Regulations	(When used in conjunction with Scotchkote Epoxy Primer GP 830)
Abrasion Resistance	25mgm weight loss per 500 cycles - 1kg load - CS10 wheel. (ASTM D4060)
Impact Resistance	No failure (0.9kg (1.98lbs) load dropped 45cm (18 inches) (BS2782 - 3)
Dry Heat Resistance	100°C (212°F) (ASTM D2485)
Direct Pull Adhesion	6.2Mpa (900 psi) - steel 4Mpa (500 psi) - concrete (Concrete Failure) (ASTM D4541)
Pencil Hardness	HB (ASTM D3363)
UV Resistance	500 hours QUV-B no loss of gloss, no colour change (ASTM G53)
Scratch Resistance	No Failure 2.5kg (5.5lbs) load (BS3900 - E2)



Application Procedures for 3M™ Scotchkote™ Urethane Wall Coating UV 843

Surface Preparation

All surfaces should be prepared and primed in accordance with the appropriate 'SYSTEM RECOMMENDATION'.

Primed surfaces should be clean, dry and free from contamination.

Application Procedures

Mixing

The product is a two component water based product, both components must be mixed together prior to use.

The Part A (Base) component should be stirred using a variable speed mechanical mixer with the mixer set at approximately 1000 rpm.

The Part B (Activator) component should be slowly added whilst continuing stirring (increasing the rpm as required) until a uniform homogeneous mix is obtained. The mixed material must be used within 1½ hours of mixing at 20°C (68°F)

Application

Application should not be carried out when relative humidity exceeds 85% or when surface to be coated is less than 3°C above the dew point. The minimum temperature for application is 5°C. The product can be applied by brush or roller.

Brush - Good quality brushes should be used with even brush strokes, ensuring that the product is not over-brushed leading to less than the specified coating thickness.

Roller - Short pile mohair rollers are the preferred equipment for this application method. The product should be spread evenly with regular checks made to ensure the correct uniform wet film thickness is achieved.

All equipment must be cleaned IMMEDIATELY after use with clean water.

Packaging and Storage

Supplied in 4.5 litre packs (colours) 4 litre packs (clear).

Use within 2 years of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C. Protect from frost during storage and use.

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 or fax +44 (0)1609 783762 (Sales) or 788718 (Technical).

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

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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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