

3M™ Scotchkote™ Epoxy Floor Coating HS 851

Data Sheet and Application Guide

Product Description

Scotchkote Epoxy Floor Coating HS 851 has been specifically developed as a single coat high solids protection system for application to concrete floor surfaces.

Product Features

- Combines good application characteristics with excellent chemical resistance.
- Designed for application by brush or roller.
- Suitable for use as a self priming system on concrete.
- Can be used on other floor surfaces with the appropriate primer.

Adhesion: Excellent to correctly prepared concrete.

Chemical Resistance: Unaffected by most industrial chemicals.

Abrasion Resistance: High order of resistance to abrasion and mechanical damage

General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Prepare the surface by light abrasion.
3. Apply Scotchkote Epoxy Floor Coating HS 851 at the specified thickness.
4. Allow to cure.
5. Visually inspect the coating for defects.
6. Repair all defects.

Properties

Property	Value
Colour	Light Grey Note: Not colour stable, where a colour stable finish is required it must be overcoated with an appropriate top coat.
Ratio	2:1 by volume
Drying & Cure times at 20°C (68°F)	
Useable life	45 mins
Touch Dry	6 hours
Hard Dry	24 hours
Full Cure	7 days
Volume Solids	85%
Specific Gravity	1.3 (Average Mixed)
V.O.C	137g/litre
Film Thickness (Typical)	Wet 175 microns Dry 150 microns Note: Normally applied as a single coat, however on porous concrete two coats may be required for a uniform appearance.
Theoretical Coverage Rate	5.67 sq metre per litre at 150 microns dft.
Abrasion Resistance	30 mgm per 1000 cycles, CS17 wheel 1kg load ASTM D4060
Impact Resistance	3.95 joules (35 ins/lbs) ASTM D2794
Tensile Strength	160 kg/cm ² (2275 psi) ASTM D638

Application Procedures for 3M™ Scotchkote™ Epoxy Floor Coating HS 851

Surface Preparation

All surfaces should be clean, dry and free from loose material.

Concrete Surfaces should have all surface laitance removed by light abrasion

Non Porous Surfaces: Quarry tiles and coated surfaces should be primed with 3M™ Scotchkote™ WB Epoxy Primer GP 830.

Existing coatings should first be checked for adhesion to the substrate then be primed with Scotchkote WB Epoxy Primer GP 830.

If in doubt about the choice of primer consult the 3M Northallerton Technical Department.

Mixing

The product is a two component material comprising Part A component and Part B component which must be mixed together prior to use.

The Part A component should be stirred and whilst continuing stirring, the Part B component should be added with mixing continuing until a homogeneous mix results. The use of a mechanical mixer is advisable to ensure thorough and complete mixing.

The mixed product must be used within 45 minutes of mixing at 20°C (68°F).

Application Procedures

Application should not be carried out when 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 the surface to be coated is above 10°C (50°F).

The product should be applied to give a smooth uniform coating by brush or roller with roller being the preferred method particularly for the application of slip resistant finishes.

Both short or medium pile rollers can be used for successful application, with medium pile being preferred on uneven surfaces.

Where a slip resistant finish is required then 3M™ Scotchkote™ Granular Aggregate LD 092 should be scattered on to the product and rolled in.

Packaging and Storage

Supplied in 5 litre & 20 litre packs

Use within 5 years of date of manufacture. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

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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Ordering Information/Customer Service

For ordering, technical and product information or to request a copy of the Material Safety Data Sheet, call

01462 421 333

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