

3M™ Scotchkote™

Intumescent Coating LS3000

Data Sheet and Application Guide

Updated
Supersedes

July 2014
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Product Description

Scotchkote Intumescent Coating LS3000 has been specifically developed as a high solids intumescent coating for steel and timber substrates.

Product Features

- combines good application characteristics with excellent fire resistance

General Application Steps

- Remove oil, grease and loosely adhering deposits.
- Abrasive blast clean steel surfaces to NACE No. 2/SSPC-SP10 near white metal, ISO 8501:1, Grade SA2½ near white metal.
- Apply Scotchkote Intumescent Coating LS3000 at the specified thickness.
- Allow to cure.
- Inspect the coating for defects.
- Repair all defects.

Properties

Property	Value
Colour	Off White
Ratio	4:1 By volume
Drying & Cure times at 20°C (68°F)	
Usable Life	2 hours
Touch Dry	3 hours
Hard Dry	16 hours
Minimum Overcoating	16 hours
Maximum Overcoating	7 days
Full Cure	7 days
Volume Solids	80%
Specific Gravity (Average Mixed)	1.15
V.O.C (As Supplied)	128g/litre EPA Method
V.O.C (thinned 10%)	248g/litre
Note:	Thinning for spray application will increase the applied V.O.C
Film Thickness (Typical)	Wet 250 microns Dry 200 microns
Theoretical Coverage Rate	4 sq metres per litre at 200 microns dft.
Performance Data	
Fire Resistance	Class 1 Surface Spread of Flame BS476 - 7 150 microns dft on mild steel. 200 microns dft on marine plywood.



Application Procedures for Scotchkote Intumescent Coating LS3000

Surface Preparation

Steel surfaces should be abrasive blasted NACE No. 2/SSPC-SP10, ISO 8501:1, Grade SA2½ near white metal. Wooden surfaces should be clean, dry and free from contamination. Hard wood surfaces should be lightly abraded.

Application Procedures

Mixing

The contents of the Part A (Base) container should be stirred, and whilst continuing stirring the contents of the Part B (Activator) container should be added with stirring continuing until a homogenous mix is achieved.

Application

Do not apply when relative humidity exceeds 90% or when surfaces to be coated are less than 3°C above the dew point.

Application can be by brush, roller, conventional or airless spray, with airless spray being the preferred method.

- Airless Spray Minimum 30: 1 pump ratio
- Tip Size 13-15 Thou orifice;
- Tip pressure minimum 2500 psi (175 bar)

Conventional Spray

Pressure pot, needle set up 1.4-1.8mm.

For small areas good quality brushes and mohair rollers should be used. Clean all equipment immediately after use with 3M™ Scotchkote™ Thinners SA65.

Note: When airless spray is being used, excessively high tip spraying pressures should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.

Packaging and Storage

Supplied in 5 litre units.

Use within 12 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.

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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