

3M™ Scotchkote™

Intumescent Coating LS4000

Updated
Supersedes

July 2014
January 2013

Data Sheet and Application Guide

Product Description

Scotchkote Intumescent Coating LS4000 has been specifically developed as a clear intumescent coating for internal timber substrates.

Product Features

- Combines good application characteristics with excellent fire resistance.
- Must always be overcoated with 3M™ Scotchkote™ Intumescent Sealer LS4000 CL.
- Exhibits excellent clarity and very good gloss retention.
- Has excellent adhesion to correctly prepared timber surfaces.
- Can be applied over wax free stained timber.

General Application Steps

- 1 Remove oil, grease and loosely adhering deposits.
- 2 Ensure wooden surfaces are clean, dry and free from contamination.
- 3 Apply Scotchkote Intumescent Coating LS4000 at the specified thickness.
- 4 Allow to cure.
- 5 Inspect the coating for defects.
- 6 Repair all defects.
- 7 Apply Scotchkote Intumescent Sealer LS4000 CL

Properties

Property	Value
Colour	Clear
Ratio	4:3 By volume 100:87 By weight

Drying & Cure times at 20°C (68°F)

Usable Life	1½-2 hours
Touch Dry	2 hours
Hard Dry	16 hours
Full Cure	7 days
Volume Solids	68%
Shelf Life	Use within 12 months of date of manufacture. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

Specific Gravity (Average Mixed)	1.3
V.O.C (As Supplied)	22g/litre
Film Thickness (Typical)	Wet 150 microns, Dry 100 microns
Theoretical Coverage Rate	6.8 sq metres per litre at 100 microns dft.

Performance Data

Fire Resistance	Class 1 Surface Spread of Flame (BS476 - 7) Class 0 - Designation in accordance with UK Building Regulations E.15 (BS476 - 6)
The above results relate to a system of 100 microns dft of Scotchkote Intumescent Coating LS4000 overcoated with 30 microns dft of Scotchkote Intumescent Sealer LS4000CL applied to parana pine. Test reports are available if required.	
Abrasion Resistance	70mgm weight loss per 1000 cycles - 1kg load - CS17 wheel (ASTM D4060)
Pencil Hardness	HB (ASTM D3363)
Scratch Resistance	No failure 2.5kg load (BS3900 -E2)



Application Procedures for Scotchkote Intumescent Coating LS4000

Surface Preparation

Surfaces should be clean, dry and free from wax and 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 or roller. Good quality brushes and mohair rollers should be used.

To ensure correct drying of the material, temperatures should be maintained above 10-15°C and humidity maintained below 80% with good movement of dry air to prevent condensation forming in the surface.

Clean all equipment immediately after use with clean water.

Note: Scotchkote Intumescent Coating LS4000 should always be overcoated with Scotchkote Intumescent Sealer LS4000 CL. This should be carried out as soon as the intumescent coating is touch dry.

Packaging and Storage

Supplied in 4.5 litre packs.

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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