



FIRE RETARDANT UPGRADE



A WATERBORNE INTUMESCENT COATING DESIGNED TO PREVENT THE SPREAD OF FIRE ON PREVIOUSLY PAINTED SURFACES

- Intumescent coating classified to European Standard EN 13501-1
- Achieves European Class B-s1, d0 on previously painted internal surfaces
- Waterborne
- Dries to a matt white finish
- Can be overcoated with Zeroflame Topcoat W

Description

Zeroflame Upgrade is a waterborne intumescent coating designed to prevent the spread of fire on previously painted surfaces.

Use

Zeroflame Upgrade has been successfully tested to European Standard EN13501-1, achieving B-s1, d0 on wood with a minimum thickness of 8mm, or a non-combustible substrate with a minimum thickness of 6mm, and density $\geq 338 \text{ kg/m}^3$, previously coated with paint to maximum thickness of 360 μm .

Appearance & Overcoating

Zeroflame Upgrade achieves a matt white finish. If an alternative colour or gloss level is required Zeroflame Topcoat W is available.

Coverage & Application Rates

2.5m²/kg
400g/m², achieving 305 μm
WFT/215 μm DFT

Number Of Coats

The number of coats required depends on the application method and the standard of finish required, ensuring at all times that the minimum coverage rates are achieved.

Surface Preparation

Surfaces to be coated must be thoroughly clean, dry and free from oil, grease, dust, etc.

When overcoating existing paints any evidence of delamination between existing coats or between existing paint and the substrate indicates that the surface is unsuitable for overcoating, requiring all existing coatings to be removed. Existing coatings, if found to be suitable, should be thoroughly abraded and all dust and debris removed.

Method Of Application

Zeroflame Upgrade can be applied by brush, roller or airless spray, with the latter two methods being most appropriate for large flat areas. If airless spray is used the recommended tip size is 11 - 17 thou, with an operating pressure of 1,750 - 2,350psi. Stir the product thoroughly before use.

Drying Time

Re-coat: 4 hours
Top coating: 12 hours
At 23°C and 50% RH

Thinning & Cleaning

Zeroflame Upgrade should not be thinned. Clean all equipment with water immediately after use.

Application Conditions

Application should not be attempted in any of the following circumstances:
Surface temperature: below +10°C
Ambient temperature: below +10°C
Substrate moisture content: above 15%
Relative humidity: above 70%

Restrictions To Use

Zeroflame Upgrade should not be used on surfaces exposed to external conditions or to frequent exposure to moisture.

If there is a risk of moisture penetration from the untreated side of the substrate, the reverse side should be sealed with a moisture resistant membrane.

Technical Data

Flashpoint: Non-combustible
Specific gravity: 1.3
Volume solids: 70%

Finish

Matt white.

Storage Instructions

Storage: 12 months frost free in unopened containers.

Limits Of Exposure

Recommended for application to interior surfaces only. If a colour and/or wipeable surface is required Zeroflame Upgrade can be overcoated with Zeroflame Topcoat W.

VOC

EU Limit Value for this product (Cat.11 A/i (WB)): 140g/l
This product contains 31g/l VOC.

