

# WATERBASED INTUMESCENT PAINT A85

Indoors. Matt

**TITAN**



Product Code: 103

## Description

Single coat intumescent paint for protecting steel structures against fire, both for open profiles (I-shaped and H-shaped) and for hollow profiles.

It swells as a result of heat exposure and develops an isolating foam which protects the structural steel and delays the heat propagation. It provides stability against fire in metallic structures ranging from R180 in open profiles to R120 in hollow profiles. Quick-drying and short overcoating interval. No repainting limit.

## Fields of Application

Indoor application. It is also possible to apply this paint on outdoor surfaces partially exposed to weathering provided it is overcoated with an appropriate paint or enamel. Suitable for steel previously prepared with a compatible primer. To be used in workshops, new works and maintenance works in rural, urban and industrial environments.

## Technical Data

<b>Finish</b>	Matt
<b>Colour (UNE EN ISO 11664-4)</b>	White.
<b>Density (UNE EN ISO 2811-1)</b>	1.34 - 1.36 Kg/l
<b>Coverage</b>	1,9 Kg/m <sup>2</sup> for 1000 dry $\mu$
<b>Drying at 23°C 60 % RH (UNE 48301)</b>	8 hours
<b>Recoat time at 23°C 60% RH (UNE 48283)</b>	8 hours
<b>Methods of Application</b>	Airless. Brush (3 coats are required to achieve the recommended thickness)
<b>Thinning</b>	Airless: 0 - 5% / Brush: 0 - 5%
<b>Nozzle Diameter</b>	Airless: 0.025" - 0.030"
<b>Nozzle Pressure</b>	Airless: 180 - 250 bar
<b>Thinner</b>	Water
<b>Equipment Cleaning</b>	Water
<b>Recommended Thickness (UNE EN ISO 2808)</b>	Dry: 700 microns / Wet: 1000 microns (maximum per coat)
<b>Application Temperature, RH&lt;80%</b>	+5°C - +35°C
<b>Volume Solids (UNE EN ISO 3233-3)</b>	68 - 74%
<b>VOC (UNE EN ISO 11890-2)</b>	2.004/42IIA (i) (140/140) Max. COV 30 g/l
<b>Pack sizes</b>	25 Kg

Variations in temperature, humidity, thickness, tinting or surface type, etc. may lead to changes in drying, in coverage or in other properties.

## Certificates

Fire resistance of building structures: UNE-ENV Standard 13381-8.

## Directions for use

### GENERAL REMARKS:

The surfaces to be painted have to be free from dust, grease and oil, dry and in good condition. Before use, homogenise the product with a mechanical shaker. Make sure there are no pigment rests at the bottom of the pot.

If necessary, adjust viscosity with water. Before every use, clean the sprayer with water. A85 Intumescent Paint has to be applied on a base coat of compatible anticorrosive primer.

Always paint at a temperature which has to be 3°C above dew point. In contact with excess moisture, the intumescent paint gets damaged.

Steel: It is advisable to sandblast the surface up to Sa 2 ½ grade of the ISO 8501-1 standard or by means of manual or mechanical cleaning, up to ST-3 grade of this same standard. Apply the required primer and finish with the A85 Waterbased Intumescent Paint. Pay attention to the thickness in microns prescribed by the Project Management, considering the profile characteristics and the required performance.

If the surfaces are previously primed, they must have a normal appearance and be dry and free from pollutants. It is advisable to previously test compatibility. If the surface has been coated with zinc primers (epoxy with high zinc content or zinc based silicates), it will have to be clean, dry and free from zinc salts. Any damage on the surface will have to be repaired before applying the A85 Waterbased Intumescent Paint.

The total thickness of the dry primer base coat must never exceed 150 microns.

The most suitable system for applying A85 Waterbased Intumescent Paint is by airless spraying. The thickness to be achieved is 700 dry  $\mu$  per coat, by means of repeated crossed spraying (it is advisable to remove filters). Brush is also acceptable for small surfaces, even though the final appearance will show brush marks. Application by roller is not recommended.

The final film thickness of the intumescent paint will be determined by the massivity and the fire resistance of the profile to be painted. It will be assessed in accordance with the A85 Waterbased Intumescent Paint certificate.

All paints and enamels of our Professional / Industrial ranges (except chlorinated rubber) can be applied on the A85 Waterbased Intumescent Paint, provided that the thickness is not excessive (<90 $\mu$ ) as this can affect the performance of fire protection because it may limit the swelling of the intumescent paint.

## Precautions

Always read the pack label before use. For more information, please refer to the Safety Data Sheet.

Store in tightly closed containers protected from sources of heat and temperatures below 0°C. Shelf life: 36 months in original unopened packaging.

**Waste management:** Follow local legal regulations. Help to protect the environment, do not empty into drains, dispose of this material and its container at hazardous or special waste collection points. Calculate the amount of product you will need to avoid waste and extra costs. Collect the leftover material and keep it well stored for a new use.

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Any technical sheet is automatically cancelled by a subsequent sheet or five years after the issue date. We guarantee the quality of our products. However, we disclaim any liability in relation to factors other than the coating itself or in relation to an unsuitable use or application method. In case of doubt, please refer to our technical service before applying the products.



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