

KNAUF FIREPAINT LITE

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Knauf Firepaint Lite is a spray applied intumescent paint. The intumescent paint works with primer, and with or without topcoat where appropriate to suit the environmental conditions. In accordance with EAD 350402-00-1106, Knauf Firepaint Lite may be considered as a reactive coating kit that includes one or more primers and/or topcoats .

Application

Spray application

During application it is recommended to put the steel sections on support trestles such that the area of contact is minimum. Best practice is "sharp" contact. This minimises the area of damages and therefore limits the to-be-repaired surfaces after the applications. With Knauf Firepaint products applied in one/few coat(s) at low dry film thicknesses, it is of special importance that a continuous, pinhole-free paint film is obtained at application of each coat. An application technique which will ensure good film formation on all faces of the profiles must be adopted.

It is very important to use nozzles of the correct, not too big, size and to have a proper, uniform distance of the spray gun to the surface; 30-50 cm should be aimed at. Furthermore, great care must be taken to cover edges, openings, rear sides of stiffeners etc. Thus, on these areas application of a stripe coat will therefore be good painting practice. The finished coating must appear as a homogeneous film with a smooth surface; irregularities such as dust, dry spray, abrasives, should be remedied.

Brush and roller application

Application with hand tools, brush or roller is possible but it results in a more uneven paint film by these methods compared to airless spray paints and many additional coats may be necessary to obtain the specified dry film thickness.

Application by hand tools, brush, or roller is generally only recommended for small areas, repairs and touch-up; although, repairs can often be made easily by putty knife or plastering trowel.

Intended use

The intended use of intumescent paint Knauf Firepaint Lite is to fire protect I/H-section beams and columns, circular hollow columns, rectangular or square hollow columns and beams, and steel temperatures in the range of 350°C to 750°C. The precise scope is given in Annex A which shows the total dry film thickness of Knauf Firepaint Lite (excluding primer and topcoat) required to provide R15 to R90 class for I/H beams and columns, and R15 to R60 class for circular hollow columns and rectangular or square hollow columns and beams.

A reactive coating kit Knauf Firepaint Lite has ability to fire protect structural steel rectangular or square hollow beam sections up to 75 minutes. Therefore, tables which show the total dry film thickness for additional fire resistance periods also form part of **ETA-24/0052**.

The provisions given in this European Technical Assessment are based on an assumed working life of the products of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

Methods used for the assessment

The assessment has been made in accordance with EAD 350402-00-1106

Properties

- Fire-resistant paint with fire resistance 30-60 min
- Stops or prevents the spread of flames
- Ecological, water-based
- Designed for indoor metal structures
- High quality at an affordable price
- Designed for professionals

Use category

- Type Y: intended for use in internal and semi-exposed conditions. "Semi-exposed" includes temperatures below 0°C, but no exposure to rain and limited or casual exposure to UV (but the effect of UV exposure is not assessed).
- Type Z1: intended for use in internal conditions with humidity equal to or higher than 85 % RH, excluding temperatures below 0°C.
- Type Z2: intended for use in internal conditions with humidity lower than 85% excluding temperatures below 0°C.

Technical data:

- Viscosity: **viscous**
- Non volatile content: **68%**
- Flashpoint: **non-combustible**
- Specific gravity: **1.4**
- Film thickness: **2000 g/m² = 1440 um** wet and **980 um** dry film thickness
- Cleaning: **water**
- Storage: **12 months** for unopened packaging
- **ETA 24/0052**