

Technical Data Sheet

FLAMRO® ST-I

Definition

FLAMRO® ST-I is a water-based, intumescent fire protection coating applicable on construction steel.



Application Areas

- Indoor use
- For vertically and horizontally supporting steel profiles
- For open steel profiles, H-/ I- beams and pillars

1. Product Data

Material	Water-based fire protection coating for structural steel
Mode of action	Intumescent
Assessment	ETA-13/0837
Resistance to fire (EN 13381-8)	Up to R240
Reaction to fire (EN 13501-1)	B-s1,d0
Colour	White
Density	1335 ± 70 kg/m ³
Non-volatile content	71,4 ± 5%
Viscosity	150 ± 20 dPa • s
Toxicity	Not classified as hazardous according to Regulation (EC) No. 1272/2008
Storage	Keep frost-free
Shelf life	12 months in unopened original packaging
Packages	20,0 kg

2. Intended Use

Components	Columns and beams (I- and H-profiles)
Surface	Surface cleanliness SA 2½ (ISO 8501-1) or equivalent, primer (see paragraph 3 Primer)
Environmental conditions	Internal use
Use category (ETAG 018-2)	Type Z ₂
Dry film thickness	Relates to both design temperature and section factors (see ETA-13/0837)

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3. Primer*

Surface	Type	Manufacturer
Steel	Sigmacover 280	PPG Coatings Deutschland GmbH
Galvanized steel	Amercoat 71(TC)	PPG Coatings Deutschland GmbH

4. Application

Procedure	Brush, roll, airless application
Surface temperature	$\geq 5 \text{ }^{\circ}\text{C}$ $\geq 3 \text{ K}$ above the dew point
Air humidity	$\leq 85\%$
Wet film thickness (per layer if applicable)	$\leq 400 \text{ }\mu\text{m}$
Curing time	<ul style="list-style-type: none"> Hand-dry after approx. 2 h (20 °C) Fully cured after approx. 4 h (20 °C)

5. Topcoat*

Manufacturer	LIBERT PAINTS nv.
Type	Acrylon
Colour	White as well as more than 8000 other colours
Application conditions	$> 10 \text{ }^{\circ}\text{C}$, $\leq 85 \text{ \%}$ air humidity
Coverage	10 - 12 m ² /l
Curing time	2 h
Storage	Keep frost-free
Shelf life	12 months in unopened original packaging

* for further details see technical documentation of the respective manufacturer

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