

## SCHEDA TECNICA

### VERNITAL FIRESTOP EXTRATHERM WS

**cod. 85310902**

- Single-component water based intumescent fire proof
- Paint fire-resistant, according to UNI EN 13381-8 : 2013

<b>Description</b>	Fire retardant coating which, when heated above 200°C, becomes plastic producing non-flammable gases, such as carbon dioxide and ammonia. The gas are trapped by the film, converting it to a foam about fifty times as thick as the original paint film. Resulting in a thick, highly insulating layer of carbon, which effectively protects the substrate from fire and retard the steel collapse
<b>Use and principal characteristic</b>	This product is manly used for fire performance as fire protection for steel structures
<b>Not recommended for</b>	Continuous immersion in acid, alkaline, salt substances and water of any kind
<b>Adhesion</b>	Very good on appropriate primer
<b>Flexibility</b>	Good
<b>Abrasion resistance</b>	Fair
<b>Topcoat required</b>	For exterior surfaces the paint system must be protected with an additional coat of water based paint as Hydroacryl s. 755600000 or Vernisan s.85840000 or Desmover s.45450000
<b>Approvals and certificates</b>	Vernital Firestop Extra Therm WS s. 85310902 has been approved and certified according to UNI EN 13381-8 : 2013
<b>Basic data at 20°C (mixed product)</b>	
<b>Colour and gloss</b>	White n. 85310902 - flat < 40 gloss
<b>Mass density</b>	1,30 g/ml
<b>Solyd content by volume</b>	60%
<b>VOC</b>	15 g/l
<b>Number of coat</b>	1-2
<b>Application method</b>	airless; brush or roller
<b>Curing at 500 microns dft</b>	

<b>Set - to - touch</b>	4-5 hours
<b>Ready for handling</b>	12-18 hours at 20°C
<b>Ready for overcoating</b>	min. 6 hours at 20°C max. unlimited
<b>Full cured</b>	5 days with good ventilation <b>Note:</b> <i>Drying and curing times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions: Times are proportionally shorter at higher temperature and longer at lower temperatures.</i>
<b>Shelf life</b>	12 months if protected against weathering and at max. temperature of 40°C
<b>Flash point (DIN 53213)</b>	Not flammable
<b>Packaging</b>	25 kg – 5kg
<b>Surface preparation and application condition</b>	All surfaces to be coated must be clean, dry and free of rust, oils, dust, dirt, old paint, and other contaminants.  <b>Steel:</b> Dry abrasive blast cleaning to near-white in accordance with SSPC-SP 10 to a degree of cleanliness in accordance with NACE 2 or ISO Sa 2 ½ to obtain blasting profile (Rz) 50 - 100 mm. Surfaces to be primed with suitable coat of Vernital Primer Firestop WS.  <b>Galvanised Steel:</b> For application on hot dip galvanised steel we recommend our primer Uniepox n. 35000344 at 40 mm. In case the steel surfaces have been previously protected with zinc coatings, (organic or inorganic) Vernital Firestop Extra Therm WS s. 85310902 can be applied directly over said primers provided surfaces have been previously carefully cleaned from any contamination and sufficiently roughened if necessary
<b>Material Preparation</b>	Stir well before uses
<b>Environmental Conditions</b>	During application and drying: - Air temperature: 5 to 40°C - Relative humidity: <70% To prevent moisture condensation during application, surface temperature must be at least 3°C above dew point.
<b>Airless spray</b>	
<b>Nozzle orifice</b>	0,028 – 0,031 inch or larger
<b>Nozzle pressure</b>	approx. 150 - 200 at.-2100 - 2840 p.s.i.
<b>Compression ratio</b>	Heavy duty single feed airless spray equipment with a minimum of 45:1
<b>Pump</b>	Ratio without filter
<b>Recommended thinner</b>	Water
<b>Volume of thinner</b>	0-5%

**Brush/Roller** Use clean, short bristled brush or medium nap roller. For strip coating and spot repair only

**Recommended thinner** Water

**Volume of thinner** 0-5%

**Cleaning Solvent** Water  
*All application equipment must be cleaned immediately after use, and the paint inside the spraying equipment must be removed.*

**Additional data**

<b>Measuring thickness</b>	<b>wet</b>	<b>film</b>	- deviation is often obtained between the measured apparent wft and the real applied wft, this is due to the thixotropy and the surface tension of the paint by which the release of air in the paint film takes some time. Recommendation is to apply a wft which is equal to the specified dft plus 30 mm.
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