

AMOTHERM® STEEL WB HI

Fire-protection system for steel

Rev. February 2025

Intumescent coating

Characteristics: intumescent coating based on vinyl versatate polymers in an aqueous dispersion and specific reactive substances which, when exposed to the action of flames or the heat of a fire, generate a foam with heat-insulating properties.

Applications: special fire-protection system for both open and closed structural steelwork in civil and industrial buildings.

Technical performance: intumescent fire-proofing system certified according to European standard EN 13381-8, whose contribution to fire resistance is up to 90' (performance tested in relation to the type of structure treated). CE-marked product in accordance with the procedures set out in the ETAG 018 framework guidelines.

Technical data	
Single component	
White	
1300-1400 g/l	
Thixotropic	
72 - 78%	
68 – 74%	
8-12 hours with same product	
3-4 days from the last coat with topcoat	
at least 18 months in the original closed container at a temperature of >5 °C; PROTECT FROM FROST.	
as per price list	

The product application details were obtained in normal environmental conditions (temperature 20 °C and relative humidity 60%) and refer to the application of a wet film with a thickness of 1000 micron. Application of different thicknesses and/or different environmental conditions may lead to considerable variations in the information given above.

How to apply

All technical product documentation is available on the company website and can be downloaded at <u>www.amonncolor.com</u> and in the dedicated section of My Amonn.

Below are the standard operating conditions for the correct application and processing of the protective coating system.

Surface preparation:

- **New surfaces:** sandblast to grade SA 2^{1/2} and treat with a compatible primer.
- Surfaces previously treated with a compatible primer (alkyd, epoxy and zinc phosphate acrylic): remove all traces of dirt, oil or grease. Check the state of the primer and the over-painting times of the product on the substrate.
- Surfaces previously treated with an unknown product: we recommend sandblasting and/or mechanically brushing and/or sanding, followed by thorough cleaning of the surface and treatment with a compatible primer. We suggest contacting our Technical Department for advice before beginning any work.

- Surfaces previously treated with an inorganic zinc-based coating: apply a coat of epoxy insulating primer. The AMOTHERM STEEL PRIMER line offers different technical solutions depending on the intended use and type of substrate. Please refer to the technical data sheets of the various primers.



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Application quantity: the amount of intumescent coating to apply depends on the structural element to be protected and the technical performance required. Calculations of consumption rates can be requested with no obligation by writing to our Technical Department at <u>ingass@amonncolor.com</u>.

Product preparation: mix the product well before use.

Dilution: the product is ready to use; if necessary, dilute with a maximum of 5% water. Do NOT exceed the recommended amounts.

Application: by airless spray, roller or brush.

Use an airless pump for spray application:

- Pneumatic pump with a minimum compression ratio of 30:1
- Electric pump with motor power of at least 1.9 KW
- minimum pressure 160 bar, nozzle 0019"-0031", self-cleaning type, return hose 3/8", removing any filters (maximum quantity that can be applied in one coat: 1200 1350 g/m² of product corresponds to a WFT of 900-1000 micron).
- As a general rule, approx. 400 g/m² of product can be applied in a single coat with a roller or brush.

We recommend working in an ambient temperature of between 5 and 40 °C with relative humidity below 60%. Do not apply if it is raining, windy or if there is mist, high humidity or in direct sunlight. Check there is sufficient ventilation to ensure the film applied is able to dry out thoroughly.

Only apply when the temperature of the surface is at least 3 °C above the dew point and/or when it is below 35 °C.

Tool cleaning: with water immediately after use.

Protective system: Before application, seal the exterior of the structures to minimise exposure of the system to weather conditions during the process.

Make sure that the entire paint cycle is applied in favourable environmental conditions and that the various coats are not directly exposed to rain, mist or high humidity immediately after application.

No protective topcoat is needed when the system is applied in an indoor environment (type Z_1 and Z_2) with no aggressive chemical agents; when a coloured finish is required, we recommend applying a coat of AMOTHERM TOP WB topcoat.

When the protective system is applied in environments subject to deterioration of a physical nature or where there are chemical pollutants, we recommend using a special protective topcoat.

When applied indoors where there may be condensation and high relative humidity and on semi-exposed elements (edge beams, etc.), it is essential to apply a polyurethane topcoat suitable for outdoor use (for example AMOTHERM TOP PU SB). It is important to monitor the condition of the finish of these particular applications and, should it deteriorate, promptly restore protection.

We do not recommend using very thick surface finishing treatments which could interfere with the fire-expansion characteristics of the material or applying panels, slabs or other glued coverings which, in the case of fire, could jeopardise the underlying intumescent coating from generating the protective foam.

The instructions provided in this document are consistent with the most recently available information on the development and use of our product. Because we have no control over the onsite use and application of the product, we may only be held liable for the quality of the product as supplied.



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