FEATURES

Water-based white intumescent paint for the protection of steel elements placed inside or outside in semi-exposed conditions.

PRODUCT PROPERTIES

	VALUE	METHOD
SOLID BY WEIGHT	68% ± 2	Internal PF25
SOLID BY VOLUME	60% ± 2	
SURFACE APPEARANCE	MATT	
DRYING TIMES (20°C; 65% R.H.)	Overcoatable 6-8 h; Overcoatable with finishing 24h	Internal PF2

SPECIFICATION DATA

	VALUE	METHOD
SPECIFIC WEIGHT	1300-1450 g/l	Internal PF3

COLOUR RANGE

White.

SHELF LIFE

12 months in the original sealed can,protected from rain and direct sunlight, at 10/35° C during transport and storage.

USE

On structural steel elements whose fire resistance needs to be increased.
The quantity of product to be used is calculated according to the type of profile, the sides exposed to fire and the fire resistance time R required. The protective system foresees the application of Ignisteel Fe after the application of anticorrosive primer, which is essential to guarantee the adhesion of the intumescent paint.
Ignisteel Fe is sensitive to water and humidity, so if the treated substrate is exposed to these conditions, the final application of a specific waterproof finish is mandatory.

TOOLS

Brush, Roller; Airless, nozzles 0.48-0.79 mm (19-31), working pressure 120-250 bar. In case of airless application, remove all filters from the pump and gun.

THINNING

Ready to use

COVERAGE (CONSUMPTION)

Brush, Roller min 2.5-5 m^2/kg per layer (0.200-0.400 kg/m^2 per layer depending on profile type); data at 20°C, 50% R.H.
Airless 1-1,33 m^2/kg; (0,750-1 kg/m^2 per layer depending on the type of profile), data at 20°C, 65% R.H.
In the case of airless application, allow for approx. 20% waste.

APPLICATION TEMPERATURE

+10°C +35°C. The metal temperature must be at least 2°C above the dew point.
When the ambient temperature is below +10°C, it is necessary to heat the room (e.g. overhead heaters) to maintain the temperature >+10°C during application and for 24 hours afterwards.

HUMIDITY

Ensure adequate ventilation to maintain <75% RH.
Do not apply the product in the presence of condensation.

COATING SYSTEM

Iron, cast iron

1. Prepare the surface with SA 2½ grade sandblasting or mechanical brushing;
2. Apply the Ignisteel Fondo A+B antirust primer wet on wet to a thickness of 55 dry µm (100 µm wet)
3. After 8-12 hours, apply Ignisteel Fe in several coats to the thicknesses expected, waiting 18 to 24 hours between one layer and the other.
4. After 24 hours from the application of the last layer of Ignisteel Fe, apply a

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layer of Ignisteel Finitura for a thickness of 85 dry µm (220 µm wet).

The drying times indicated depend on ambient temperature, humidity and ventilation (20°C; 65% R.H.).

Galvanized iron

1A. 1A. Surface preparation: washing and degreasing with Nitro NV5000 or detergents and proceed as in step 2.

Maintenance

Periodically check the integrity of the paint film; in case of damage, restore the protective cycle in the damaged part.

SPECIFICATION ITEM

Water-dilutable white intumescent paint based on phosphoric esters for the protection of elements in iron, galvanized iron, cast iron, placed indoors or outdoors under cover (not directly exposed to atmospheric agents), whose fire resistance must be increased; to pretreat with Ignisteel Fondo A+B and subsequently eventually over-apply with Ignisteel Finitura.

INSTRUCTIONS

To carry out the work in a proper way, it is needed to strictly follow the instructions for the preparation of the surfaces contained in the CAP Arreghini Books. This technical information is intended as a rough guide. However, because of the enormous variety of media and application conditions, it is essential to check the suitability of the product and test the effectiveness on a sample. The specification data and technical information have been calculated at +23°C with relative ambient humidity of 65%. In different conditions the data and the time intervals between the two phases of the above reported coating system can vary. Our recommendations on the use of the product are based on observations and accurate research carried out on one's own. The experiences gained in the practical application were also taken into consideration. However, due to the enormous variety of supports and application conditions, it is essential to check the suitability of the product and its effectiveness by tests carried out on the specific construction.

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