

IGNIWOOD (Riplast Ignifuga 06)

Fire retardant and intumescent products

DESCRIPTION

It is a system that is indicated for the treatment and protection of wooden structural artefacts (e.g. beams, floors) whose fire resistance must be increased. In case of fires ranging from temperatures of 200/250 ° C, the paint on the treated surface develops a layer of foam (intumescence) which is very compact and of considerable thickness which decreases significantly the natural rate of carbonization of wood.

The cycle is also indicated for the Class 1 fireproof treatment of elements in wood furniture inside such as panels, beads, stands, sets, hotels, theaters, cinemas and public places in general, not subject to trampling or mechanical stress.

The cycle is suitable to be applied on wooden materials with the exception of: veneered materials with sliced or peeled wood using thermoplastic resin-based glues; assembled with a cellular or block structure, including air cavities or filled with heterogeneous materials as required by the standard UNI 9796/1990.

The intumescent system is composed of one-component water-based Igniwood Protettivo and the protective finish with solvent Igniwood Finitura. The wood can be painted with impregnating agent *Classic W*.

PERFORMANCE DATA

	Value	Method
SOLID BY WEIGHT	<i>Igniwood Protettivo</i> 61-65% <i>Igniwood Finitura</i> 59-63%	UNI 10792
SURFACE APPEARANCE	SMOOTH	

SPECIFICATION DATA

	Value	Method
SPECIFIC WEIGHT	<i>Igniwood Protettivo</i> : 1280-1380 g/l <i>Igniwood Finitura</i> : 875-975 g/l	Internal PF3
DRYING	<i>Igniwood Protettivo</i> : Overcoatable 4-6h; Complete 5 days <i>Igniwood Finitura</i> : Complete 5 days	Internal PF2
GLOSS LEVEL	<i>Igniwood Finitura</i> 20-30	Internal PF6

SHELF LIFE

1 year minimum, stored in its unopened original can at temperatures between +5°C and +30°C.

COLOUR RANGE

Igniwood Protettivo: transparent colourless.
Igniwood Finitura: transparent colourless.

TYPICAL USE

To guarantee resistance to fire on solid and / or lamellar wood structures such as trusses, floors and carpentry in general, places inside whose fire resistance must be increased or for fire reaction in Class 1 on wood furniture inside, not subject to trampling or mechanical stresses such as beads, various furnishings, sets. Before proceeding with the application of paints, make sure the wood is clean and free from grease or resin stains and that the humidity level is between 8 and 10%. The product is very sensitive to moisture that can cause coating. Do not proceed with the application at temperatures below +10 ° C, or with a relative humidity greater than 65% or in case of fog or rain. In cases in which the product has been stored at low temperatures it is advisable to bring the temperature up to at least +15 ° C.

The above application, water-based impregnating agent for wood (Classic W) does not present any particular problems of adhesion provided that the quantity applied does not form a surface film, which would render precarious the adhesion of the flame retardant cycle.

It is recommended to wait at least 48 hours before overcoating the impregnating Classic W agent with Igniwood Protettivo, to allow complete drying. In case of different impregnating agents, before proceeding to the processing, it is recommended to perform applications on small surfaces to verify the compatibility of Igniwood Protettivo with the prospective impregnating agent. Overcoating between layers of Igniwood Protettivo may occur at intervals of 4-6 hours, and overcoating of the finishing layer must be carried out 24 hours after the last base coat.

We would like to remind you that greater thickness of product applied or different environmental conditions may cause a lengthening of the drying times indicated, as the evaporation of water is slowed down. Adequate ventilation aids the evaporation of water and guarantees good drying.

NB: The information given in this data sheet is based on an application of 140 (Igniwood Protettivo) / 75 (Igniwood finitura) g/m² of wet paint, at a temperature of 23 ° C and Relative Humidity of 65%. Thickness of paint and environmental data (temperature and humidity) can cause changes in drying times.

Equipment cleaning can be done with hot water for Igniwood Protettivo and Acquaragia VD 100 (Turpentine) or Nitro NV 5000 for Igniwood Finitura. The painted areas must not be handled with bare hands to avoid possible formation of spots on the surface.

TOOLS

Spray: airless or air coat no filters with 0.029-0.035 inch (0.75-0.90 mm) nozzles and outlet pressure of 170-240 bar.

Brush: proceed with "short strokes" in order to allow a correct application and highlight less any brush marks; apply the product up to opalescence loss and development of complete transparency. In order to improve the wettability of the wooden support and the distension of the base you can moisten the surface with a damp cloth.

THINNING

Igniwood Protettivo: brush 7-10% by weight, airless / air coat 5-7% by weight with mains water taking care to add it very slowly and by controlling the temperature of the product and the temperature of the dilution water which should not be less than + 10 ° C. Alternatively, you can arrange to raise the temperature of the base by "bain-marie".

It is recommended to slowly mix the product both before and during use so as to ensure a homogeneous consistency and avoid excessive air entrapment.

Igniwood Finitura: 0-6% by volume with Acquaragia VD 100(turpentine).

COVERAGE

RESISTANCE TO FIRE R

Igniwood Protettivo: 2.5 m²/kg (consumption 400 g/m²)

Igniwood Finitura 10 m²/kg (consumption 100 g/m²)

The resistance value is obtainable according to early opinion on the existing structure.

- REACTION TO FIRE IN CLASS 1

Igniwood Protettivo: brush 3,3 m²/kg (consumption 300 g/m²)

Igniwood Finitura: 20 m²/kg (consumption 50 g/m²)

Per coat:

Igniwood Protettivo: Brush 8.3-10 m²/kg (consumption 100-120 g/m²)

airless/aircoat 5-7.5 m²/kg (consumption 133-200 g/m²)
 Igniwood Finitura: 10-20 m²/kg (consumption 50-100 g/m²)

APPLY

+10°C +30°C

COATING SYSTEM

Structural wood (Fire resistance)

1. Sand with 150 grit paper;
2. (Optional) Apply *Classic W* in one coat with a consumption of 100-120g/m². in a single layer with a consumption of 100 120g / m². Wait 48 hours for overcoating with *Igniwood Protettivo*.
3. Apply *Igniwood Protettivo* in two/three coats waiting 4-6 h, for 400 g/m².
4. After 24 h apply a coat of *Igniwood Finitura* for 100 g/m².

Furnishing wood (Class 1 fire reaction)

1. Sand with 150 grit paper;
2. (Optional) Apply *Classic W* in one coat with a consumption of 100-120g/m². in a single layer with a consumption of 100 120g / m². Wait 48 hours for overcoating with *Igniwood Protettivo*.
3. Apply *Igniwood Protettivo* in two / three layers at intervals of 4- 6 hours, for 300 g / m². After 24 hours apply a layer of *Igniwood Finitura* for 50 g / m².

SPECIFICATION ITEM

Transparent single-component intumescent system for solid and / or lamellar wood structures, placed inside, whose fire resistance must be increased, with consumption of 500 g / m² and for the treatment of Class 1 of wooden and by-products supports, arranged on the wall or knife, (stands, sets, etc.), installed indoors and not subjected to mechanical stresses with consumption of 350 g / m².

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.

PRODUCT DATA SHEET

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