

IRUFIRE REAL & INTEGRAL B-s1,d0 PUR

PRODUCT DESCRIPTION: Process based in two component PU acrylic-aliphatic coatings, developed to coat wooden surfaces which have to accomplish the UNE- EN 13823:2012 standard of Reaction to fire (SBI test) and be classified according UNE-EN 13501-2007 + A1:2010 (Euroclasses). According to this standard a **B-s1,d0 classification** is obtained. All products cure by the addition of 10% of **δCATALIZADOR IRUFIREö**.

The process is composed of:

- **IRUFIRE PRIMER IP-1** (10% with **CATALIZADOR IRUFIRE**): 400-480 gr/m² wet must be applied distributed in 2-3 coats. Each of them at intervals of 1h-2h wet on wet (it is not necessary to be sanded between them except in the case that the time before mentioned goes longer). Allow to cure during one night (16-20h) and then sand the surface gently with flexible 280-320 grit sandpaper. Blow with pressurized air before applying the **IRUFIRE TOP COAT IT-1**.

(*) It is not a sanding in the literal sense, the minimum quantity of product must be removed to obtain a flat surface

- **IRUFIRE TOP COAT IT-1** (10% with **CATALIZADOR IRUFIRE**): is available in different glosses, from Deep Matt to Gloss. Moreover, it can be formulated as transparent or pigmented in different colors with **PASTA PIGMENTARIA 9.700** pigment past range.

We recommend applying **IRUFIRE TOP COAT IT-1** 24 hours after the application of the last layer of **IRUFIRE PRIMER IP-1**.

GENERAL CHARACTERISTICS:

- Easy to apply with any type of spraying equipment (aerographic, airmix and airless).
- **The process is totally free of halogenated compounds (chlorinated or brominated).**
- It has good wetting properties, transparency, thixotropic, smoothness, surface hardness, appearance and uniformity of matting.
- Good resistance to abrasion, rubbing and scratching.
- Good covering power.
- The acrylic-aliphatic nature of the product makes the process unalterable to the light action.
- Excellent fireproofing contribution to all types of wooden supports. Once the process is applied confers a final classification of B-s1,d0 according the standard UNE-EN 13501-1:2007 + A1:2010.

PHYSICAL PARAMETERS (IRUFIRE PRIMER IP-1 at 20 °C)

- Mixture relation IRUFIRE PRIMER IP-1 /CATALIZADOR IRUFIRE :	10/1
- Varnish viscosity:	50-70ö
- Mixture viscosity(with 10% Solvent), Ford cup No.4:	30-40ö
- Pot-life:	Aprox. 24 hours
- Solids of the mixture:	43-46%
- Appearance of dry film:	Colorless.
- Storage (unopened package):	12 months.

CURING TIME (IRUFIRE PRIMER IP-1 100 gr/m²):

- Dust-free drying:	8-12 min
- Touch drying:	16-25 min.
- Overvarnishing:	1-2 hours

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PHYSICAL PARAMETERS (IRUFIRE TOP COAT IT-1 at 20 °C s/m)

- Mixture relation IRUFIRE TOP COAT IT-1/CATALIZADOR IRUFIRE:	10/1
- Varnish viscosity:	25-40ö
- Mixture viscosity, Ford cup No.4:.....	18-25ö
- Pot-life:.....	Aprox. 24 hours
- Solids of the mixture:.....	22-35%
- Appearance of dry film:	Clear/Pigmented.
- Storage (unopened package):.....	12 months.

CURING TIME (IRUFIRE TOP COAT IT-1 100 gr/m² s/m):

- Dust-free drying:.....	6-10 min
- Touch drying:.....	13-20 mimn

APPLICATION:

- **Support:** All types of veneers and woods, commonly used for coating walls and ceilings. Do not apply on woods containing over 12% of humidity.
- **Preparation of the support:** Remove the residues of sandpapering.
- **Application:** Homogenize the varnish prior to use. Both, **IRUFIRE PRIMER IP-1** and **IRUFIRE TOP COAT IT-1** once mixed with **CATALIZADOR IRUFIRE** must be adjusted to a viscosity of 18ö-22ö (Ford Cup 4) with a suitable thinner (5-10% of D-202, 125-DPN, D-525, D-129, etc).
- **Process:** To satisfy the standard UNE-EN 13501-1:2007 + A1:2010 and obtain **B-s1,d0 classification** the following process must be applied: 400-480 gr/m² of **IRUFIRE PRIMER IP-1** (10% **CATALIZADOR IRUFIRE**) in 2-3 coats* at intervals of 1-2h between them. Allow to cure for one night (24 hours) and sand it gently with flexible 280-320 grit sandpaper. Blow with pressurized air and then apply 80-100 gr/m² of **IRUFIRE TOP COAT IT-1**.
(When more than 4-6 hours pass after the application of IRUFIRE REAL B-s1,d0 PRIMER layer, sanding with flexible 280-320 grit sandpaper is recommended.*
- **Gloss levels.** **IRUFIRE TOP COAT IT-1** is available in different gloss levels: DEEP MATT, MATT, SEMI MATT, SATIN, SEMI GLOSS AND GLOSS.
- **Color:** **IRUFIRE TOP COAT IT-1** can be formulated in different colors (NCS, RAL, BS, PANTONEí) with **PASTA PIGMENTARIA 9.700** pigment past range.

OBSERVATIONS:

The **IRUFIRE REAL & INTEGRAL B-s1,d0 PUR** process has been tested on chipboard support which fulfills the requirements of òstandard substrateö defined in the standard EN 13238 òReaction to fire tests for building products. Conditioning procedures and general rules for selection of substratesö. The B-s1,d0 classification obtained by this process can be extrapolated to any substrate of wood or wood derivative with a density equal to or higher than 510kg/m³. The same classification B-s1,d0 is obtained for this process applied on any A2-s1,d0 or A1classified substrates. For all of those cases the application of the colorless process, and the pigmented process according to sample, is enforced, englobating the RAL and NCS charts, through our tintometric system KOLORE.

Standards that intervene in the classification:

- EN 13238:2010: Reaction to fire tests for building products. Conditioning procedures and general rules for selection of substrates.
- EN 13823:2010 + A1:2014: Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2010: Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source test.
- EN 13501-1:2007 + A1:2009: Fire classification of construction products and building elements. Classification using test data from reaction to fire tests.

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