

IRUFIRE INTEGRAL B-s1,d0 PUR

PRODUCT DESCRIPTION: Process based in two components PU clear acrylic-aliphatic coatings, developed to finish wood surfaces or its derivatives with previous flame retardant treatment, to accomplish the UNE- EN 13823:2012 norm of Reaction to fire (SBI test) and later classification 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 “CATALIZADOR IRUFIRE”.

The process is composed of:

- **IRUFIRE PRIMER IP-1** (10% with **CATALIZADOR IRUFIRE**): 1 coat of 80-100 gr/m² wet must be applied. Allow to cure one night (16-20h) and sand 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, but to kill the prick or repel of the wood

- **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** after 24 hours 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.
- The acrylic-aliphatic nature of the product makes the process unalterable to the light action.
- The process classified according UNE-EN 13501-1:2007 + A1:2010 standard, confers final classification of B-s1,d0.
- Formulated as transparent or pigmented in different colors with **PASTA PIGMENTARIA 9.700** pigment past range

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

- Mixture relation IRUFIRE PRIMER IP-1 /CATALIZADOR IRUFIRE :	10/1
- Varnish viscosity:	50-70"
- Mixture viscosity (with 10% Solvent), Ford cup No.4:	30-40"
- 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 dry:	8-12 min
- Touch dry:	16-25 min.
- Overvarnishing:	1-2 hours

REVIEW: 0/ 10-2018

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: 25-40"
- Mixture viscosity, Ford cup No.4:..... 18-25"
- 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 dry: 6-10 min
- Touch dry:..... 13-20 min

APPLICATION:

- **Support:** Woody substrates with fireproof treatment and classification B-s1,d0, 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 18"-22" (Ford Cup 4) with a suitable thinner (5-10% of D-202, 125-DPN, D-525, D-129, etc).
- **Process:** To comply the norm UNE-EN 13501-1:2007 + A1:2010 and obtain **B-s1,d0 classification**, apply 80-100 gr/m² of **IRUFIRE PRIMER IP-1** (10% **CATALIZADOR IRUFIRE**). 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**.
- **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, PANTONE...) with **PASTA PIGMENTARIA 9.700** pigment past range.

OBSERVATIONS:

The same classification B-s1,d0 is obtained for this process applied on any A2- s1,d0 classified substrate. 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 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

EN 13501-1:2007 + A1:2009: Fire classification of construction products and building elements. Classification using test data from reaction to fire tests

*** Conditions for the validity of the Documentation of the process IRUFIRE INTEGRAL B-s1, d0 PUR:**

The company to which the documentation is granted must:

- Select the substrate according to the specifications and carry out the varnishing process according to the provisions of Irurena.
- Relate by means of the corresponding purchase order that the required products have been purchased and used and the necessary quantity thereof, as foreseen in the technical sheet for the classified process.

REVIEW: 0/ 10-2018

Instructions contents in this data sheet and the consequent counselling derived from them, are a consequence of our know-how and way of procedure, being necessary to consider them as guide lines to follow, without any engagement for us. The digital data offer in this data sheet are rough-and-ready and you don't have to take them as fixed values. The client can and have to do a test of the products supplied by us, checking out their adequacy and capacity to the objects you want to get. A right product application, a right product application, a right employ of it, the work condition variation, and so on, remain totally out of our control possibilities, and because of that, it is responsibility of the client.



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TECHNICAL DATA SHEET

Page 3 of 2

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