

IRUFIRE REAL & INTEGRAL B-s2,d0 PUR

PRODUCT DESCRIPTION:

A process based on two component PU clear acrylic-aliphatic coatings, developed to finish wood surfaces classified as D-s2,d0 according to UNE-EN 13238 (reference substrate) and to comply with the UNE-EN 13823:2012 norm of Reaction to fire (SBI test) and the later classification according UNE-EN 13501-2007 + A1:2010 (Euroclasses). According to this standard a B-s2,d0 classification is obtained. All products cure by the addition of 10% of "CATALIZADOR IRUFIRE".

The process is composed of:

- **IRUFIRE REAL B-s2,d0 PRIMER** (10% with **CATALIZADOR IRUFIRE**): 420-500 gr/m² wet must be applied (3 x 140-160 gr/m² each coat at intervals of 1h-1h30' wet on wet (there is no need to sand between coats except in the case that the time between coats as stated above is exceeded)) or 2 x 230-250 gr/m² (1h30'-2h between coats).

Allow to cure one night (24hours) and sand gently with flexible 280-320 grit sandpaper. Blow with pressurized air or use an approved method to remove dust before applying the top coat.

- **IRUFIRE REAL B-s2,d0 TOP COAT** (10% with **CATALIZADOR IRUFIRE**): 1 x 80-100 gr/m² must be applied. We recommend applying **IRUFIRE REAL B-s2,d0 TOP COAT** after 24 hours the application of the last layer of **IRUFIRE REAL B-s2,d0 PRIMER**.

IRUFIRE REAL B-s2,d0 TOP COAT is available in different gloss levels from Deep Matt to Gloss. Furthermore it can be provided as transparent lacquer or pigmented in different colours with **PASTA PIGMENTARIA 9.700** pigment paste range.

GENERAL CHARACTERISTICS:

- Easy to apply with any type of spraying equipment (conventional air spray, air assisted airless and airless).
- **All products in the process are totally free of halogenated compounds (chlorinated or brominated).**
- It has good wetting properties, transparency, thixotropic hold, smoothness of touch, surface hardness, aesthetic appearance and uniformity of matting.
- Good resistance to chemicals, abrasion, rubbing and scratching.
- Good covering power.
- The acrylic-aliphatic nature of the product makes the process resistant to the action of UV light.
- Excellent fireproofing contribution to all types of wood supports classified as D-s2,d0. The process classified according UNE-EN 13501-1:2007 + A1:2010 standard, gives when used a final classification of B-s2,d0.

PHYSICAL PARAMETERS (IRUFIRE REAL B-s2,d0 PRIMER at 20 °C)

- Mixing Ratio **IRUFIRE REAL B-s2,d0 PRIMER /CATALIZADOR IRUFIRE**: 10/1
- Primer viscosity: 50-70"
- Mixture viscosity (with 10% hardener), Ford cup No.4: 20-30"
- Pot-life: Approx. 24 hours
- Solids of the mixture: 39-42%
- Appearance of dry film: Colorless.
- Coverage:..... 6-6,5 m²/litre/layer.
- Storage (unopened package):..... 12 months.

CURING TIME (IRUFIRE REAL B-s2,d0 PRIMER 100 gr/m²):

- Dust dry: 8-12 min
- Touch dry:..... 16-25 min.
- Over coating: 1-2 hours

REVIEW: 1/ 07-2017

PHYSICAL PARAMETERS (IRUFIRE REAL B-s2,d0 TOP COAT at 20 °C s/m)

- Mixing Ratio: IRUFIRE REAL B-s2,d0 TOP COAT /CATALIZADOR IRUFIRE:	10/1
- Lacquer viscosity:	25-40"
- Mixture viscosity (with 10% hardener), Ford cup No.4:	18-25"
- Pot-life:	Approx. 24 hours
- Solids of the mixture:	22-35%
- Appearance of dry film:	Clear/Pigmented.
- Coverage:.....	10-12 m ² /Litre.
- Storage (unopened package):.....	12 months.

CURING TIME (IRUFIRE REAL B-s2,d0 TOP COAT 100 gr/m² s/m):

- Dust dry:	6-10 min
- Touch dry:.....	13-20 min.

APPLICATION:

- **Substrate:** 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 substrate:** Prepare in line with good working practice and remove the residues of sanding.
- **Application:** Thoroughly mix the coating prior to use. Both, **IRUFIRE REAL B-s2,d0 PRIMER** and **IRUFIRE REAL B-s2,d0 TOP COAT** once mixed with **CATALIZADOR IRUFIRE** must be adjusted to a viscosity of 18"-22" (Ford Cup 4) with a suitable thinner (5-10% of WF-FASTTHIN, WF-SLOWTHIN).

PROCESS:

To comply with the standard UNE-EN 13501-1:2007 + A1:2010 and obtain B-s2,d0 classification, apply 420-500 gr/m² of **IRUFIRE REAL B-s2,d0 PRIMER** (10% **CATALIZADOR IRUFIRE**) in 2-3 coats* at intervals of 1-2h between them.

Allow to cure for one night (24 hours before over coating) and sand it gently with flexible 280-320 grit sandpaper.

Blow with pressurized air to remove sanding residues and then apply 80-100 gr/m² of **IRUFIRE REAL B-s2,d0 TOP COAT**.
 (*) When more than 4-6 hours pass after the application of IRUFIRE REAL B-s2,d0 PRIMER layer, sanding with flexible 280-320 grit sandpaper is recommended.

Gloss levels. **IRUFIRE REAL B-s2,d0 TOP COAT** is available in different gloss levels: DEEP MATT, MATT, SEMI MATT, SATIN, SEMI GLOSS AND GLOSS (80%).

Color: **IRUFIRE REAL B-s2,d0 TOP COAT** can be formulated in different colors (NCS, RAL, BS, PANTONE, Etc...) with **PASTA PIGMENTARIA 9.700** pigment past range.

OBSERVATIONS:

Thoroughly mix the coating prior to use. The **IRUFIRE REAL & INTEGRAL B-s2,d0 PUR** process gives an upgrade to the classification of B-s2,d0 for the fire reaction classification of non fire retarded wooden supports classified as D-s2,d0 with a density equal to or higher than 510kg/m³.

The same classification B-s2,d0 is obtained for this process applied on any metallic substrate or any A2-s1,d0 classified substrate (fibercement, calcium silicate board or gypsum plasterboard type). Adhesion tests must always be carried out with these different types of substrate.

Standards that are involved 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.

REVIEW: 1/ 07-2017