

ANTI FIRE PAINT



FIRE RETARDANT TOP COAT PAINT. It is a topcoat paint which is fire retardant, non-flammable, forms a whole layer with drying on the surface on which it is applied. It is flame retardant in direct contact with fire. Resistant to fire. It is water-based and solvent-free. It is elastic, unaffected by movements. It can be easily applied to dry or slightly humid surfaces. It is water-impermeable but water vapor permeable. Thanks to this feature, it does not prevent the breathing of the surface. It doesn't keep dirt for long years via its special formula. It is suitable for use in wood, concrete, prefabricated and steel structures.

USAGE AREAS

All kinds of plastered, painted and unpainted interior and exterior surfaces, concrete, wood and steel structures, in roofs, in fire steps, in all places where nonflammability is desired, in schools, kindergartens, hospitals, theaters, and theaters, plasterboard wall partitions and ceilings, thermal power plants and industrial buildings, factories, military facilities.

APPLICATION INFORMATION

Surface preparation: It is used as protective topcoat on surface which is applied **ISONEM ANTIFIRE PAINT PLUS**. **ISONEM ANTIFIRE PAINT** is applied single layer with 0.3 - 0.5 kg/m² consumption for topcoat application. If it is desired to be used as a flame retardant, surfaces should be clean before application, there be cleaned from impurities like dirt, oil, rust and, shield particles should be cleared. **ISONEM UNIVERSAL PRIMER** (1:1.7 diluted with water - 1 part primer, 7 part water) insulation and paint primer should be applied one layer with 100 - 200 g/m² consumption. The primer is then allowed to dry for 4 hours. In steel/metal surfaces, the surfaced should be primed with **ISONEM ANTI RUST PRIMER** (Anticorrosive primer), consumption of 0,250 - 0,350 kg/m².

Application method: It can be made with a brush, roller, or a suitable sprayer. The product should be mixed homogeneously before use and applied on the surface in two coats without reconstitution at 4 hours intervals.

TECHNICAL SPECIFICATIONS

- Density (25°C, g/mL) : 1,40 ± 0,10
- pH (25°C) : 7,0 - 9,0
- Viscosity (25°C, mPa.s) : 12500 - 15000
- Solid content (% Weight) : 76 ± 2
- Water transmission rate (kg / m². h^{0.5}) : < 0,1 CLASS W₃
- Adhesion strength by pull-off test (N/mm²) : Crack bridging flexible systems without trafficking ≥ 0.8
- Permeability to water vapour (m) : 5 ≤ SD ≤ 50 CLASS II
- Solvent : Water
- Color : All requested can be produced in colors
- Product consumption : 0,6 - 1 kg/m² (2 Layers)
- Paintable (Coverage) Area : 5 kg: min. 5 m²/bucket (two layers application), 10 kg: min. 10 m²/bucket (two layers application), 18 kg: min. 18 m²/bucket (two layers application)

RESULT: ISONEM ANTI FIRE PAINT " reproof paint " test on TS EN 13823: MARCH 2010 standard in TS EN ISO 11925-2 on 02.2012 / 139921 as a result of the test and the test result TS EN 13501-1 / JANUARY 2010 Table B Complies with S1 class d0 criteria. **ACCORDING TO THE TEST RESULT OF TSE EXPERIMENT AND CALIBRATION CENTER PRESIDENCY EX LABORATORY;** Reaction of the experiment sample to fire in EN 13501-1 B (in accordance with the European classification) test method: PASSED. In the test method according to the TS EN ISO 11925-2 of the experiment sample;

- Ignition of samples : DID NOT OCCUR
- 150 mm measuring line during the flame test period : DID NOT REACH
- Dripping of samples : DID NOT OCCUR
- Filter paper : DID NOT BURN
- Experiment sample just : MELTED
- Lateral fire spread on the longitude : DID NOT OCCUR
- Fire particles or drops f <10s and f >10s : DID NOT OCCUR
- Smoke spread from the sample into the room : DID NOT OCCUR

SUMMARY OF TSE TEST RESULTS

- Average FIGRA value (W/s) : 17,24
- Average THR600s (MJ) : 0,93
- Value of average SMORA (m²/s²) : 10,58
- Average TSP600s (m): 51,86
- Up to LFS line (mm): DID NOT OCCUR
- Burning drops/particles ≤ 10s: DID NOT OCCUR
- Burning drops/particles > 10s: DID NOT OCCUR

PACKAGING & STORAGE

- Packaging : 5,10,18 kg PP bucket
- Storage temperature (°C) : 5 - 35 °C
- Shelf life : 24 months from date of production if stored in original, unopened, undamaged packages.
- Storage condition : Store tightly closed in a dry and cool place.

IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application.

APPLICATION CONDITIONS and RISKS

Things to consider during and after the application	The application surface must be clean and free from all impurities like dirt, oil, and mud.
Other ISONEM products recommended	In primer application, ISONEM UNIVERSAL PRIMER or ISONEM ANTI RUST PRIMER specified in the table below should be used depending on the application surface. To obtain the best performance, apply over ISONEM ANTI FIRE PAINT PLUS application as a topcoat.
Application temperature	It should be applied between 5 - 35°C.



General Features

Fire Retardant

B S1 d0
Fire Class

Hygienic,
does not contain
any harmful substances

Fast
Drying

	CONCRETE	MARBLE, GRANITE	RAW WOOD	TILE, CERAMICS	MEMBRANE, SHINGLE	STEEL, METAL
Application	in perpendicular to each layers	X	in perpendicular to each layers	X	in perpendicular to each layers	in perpendicular to each layers
Surface Humidity	Dry surface	X	Dry surface	X	Dry surface	Dry surface
Application Tools	Roller, brush, spray	X	Roller, brush, spray	X	Roller, brush, spray	Roller, brush, spray
Primer Usage	ISONEM UNIVERSAL PRIMER (diluted)	X	ISONEM UNIVERSAL PRIMER (diluted)	X	ISONEM UNIVERSAL PRIMER (diluted)	ISONEM ANTI RUST PRIMER
Primer Consumption	100 - 200 g/m ²	X	100 - 200 g/m ²	X	100 - 200 g/m ²	250 - 50 g/m ²
Product Usage	2 Layers	X	2 Layers	X	2 Layers	1 Layer
Product Consumption	0,6 - 1 kg/m ² (2 Layers)	X	0,6 - 1 kg/m ² (2 Layers)	X	0,6 - 1 kg/m ² (2 Layers)	0,3 - 0,5 kg/m ² (1 Layer)
Between Two Coats	4 Hours	X	4 Hours	X	4 Hours	4 Hours
Touch-free Drying	1 Hour	X	1 Hour	X	1 Hour	1 Hour
Through Drying	72 Hours	X	72 Hours	X	72 Hours	72 Hours

Note : Drying times are approximate data, it may vary depending on ambient conditions.

