



ANTI FIRE PAINT PLUS

It is a fire-retardant, water based paint that is developed for the protection of the buildings from fire and is fire retardant in the intumescent structure that provides fire insulation via expanding. It forms a seamless layer by drying on the surface on which it is applied. It has excellent flame retardant property, it expands via reacts chemically at the time of the fire and prevents the surface temperature from rising to critical levels. It is water vapor is permeable. Thanks to this feature, it does not prevent the breathing of the surface. 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
- In concrete, wooden and steel structures
- Roofs, chimneys, fire escape
- 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 installations

APPLICATION INFORMATION

Surface preparation: Surfaces must be clean and dry before application. Oil, dirt, sludge, such as materials should be cleaned, shield particles should be cleaned. The appropriate primer selection depending on the surface is made according to the following table. **ISONEM UNIVERSAL PRIMER** (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 by brush, roller or a suitable sprayer. It should be mixed until homogenous before use. After the application of primer, it is applied to the surface in two coats 4 hours apart without diluted and the painting process is finished. In exterior applications and in indoor applications that are exposed to water, and high humidity, **ISONEM ANTI FIRE PAINT** is applied as a topcoat with a brush, roller or a suitable sprayer with consumption of 0.3-0.5 kg/m². In steel/metal surfaces, the surfaced should be primed with **ISONEM Anti Rust Primer** (Anticorrosive primer), consumption of 0,250 - 0,350 kg/m².

TECHNICAL SPECIFICATIONS

- **Density (25°C, g/mL)** : 1,15 ± 0,10
- **pH (25°C)** : 7,0 - 9,0
- **Viscosity (25°C, mPa.s)** : 10000 - 12000
- **Solid content (% Weight)** : 64 ± 2
- **Solid content (% Volume)** : 55 ± 2
- **Water transmission rate (kg/m².h)** : < 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 ≤ S_p ≤ 50 CLASS II
- **Solvent** : Water
- **Product consumption** : 3,5 kg/m² for 1,5 mm thickness, steel structures (Surface / material thickness / depending on the desired fire retardant resistance time vary)
- **Paintable (Coverage) Area** : 5 m²/bucket
- **Color** : All requested can be produced in colors

APPLIED STANDARD: EFACTIS ERA EURASIA Testing and Certification Inc. which is accredited by TURKAK, TSE 13501-2: 2016 Fire classification of construction products and building elements - Part 2: Classification using data obtained from re resistance tests (except ventilation installations). According to the results of the inspection and test report 20.05.2019 dated/EEA-19-063 numbered, in accordance with this standard /TS EN 13381-8: 2013 Test Method for Determination of the Contribution of Structural Components to Fire Resistance - Part 8: According to the test results of Test Method of Reactive Protection Applied to Steel Elements, Fire Resistance Classes: R15-R20-R30-R45-R60-R90-R120-R180.

ACCORDING TO THE TEST RESULTS OF EFACTIS ERA AVRASYA Test and Certification Inc.; Main Layer Paint (intumescent paint): According to ISONEM ANTI FIRE PAINT PLUS TURKAK Accredited Test Report, the results of the evaluation can be applied to all other steel classes and the limitations given here, as specified in EN 10025-1, as specified in Article 6.1 of 13251-4. The results of the assessment can also be applied to fabricated sections. Cross-section factors should be determined according to EN 13381-8: 2013 standard. The results of this assessment are valid for the following conditions of three or four environmental protections.

- **Cross-section factor** : 65 m⁻¹ < Am/V < 527 m⁻¹
- **Thickness** : 1,5 mm < dp < 8,6 mm 24 months from date of production if stored in original, unopened, undamaged packages.
- **Design temperature** : 300°C < Qa < 750 °C
- **Section shape** : I, H columns and beams

PACKAGING & STORAGE

- **Packaging** : 18 kg PP buckets
- **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. ISONEM ANTI-FIRE PAINT should be applied as a topcoat on surfaces exposed to water and moisture.
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	in perpendicular to each layers	in perpendicular to each layers	X	X	in perpendicular to each layers
Surface Humidity	Dry surface	Dry surface	Dry surface	X	X	Dry surface
Application Tools	Roller, brush, spray	Roller, brush, spray	Roller, brush, spray	X	X	Roller, brush, spray
Primer Usage	ISONEM UNIVERSAL PRIMER (diluted)	ISONEM UNIVERSAL PRIMER (diluted)	ISONEM UNIVERSAL PRIMER (diluted)	X	X	ISONEM ANTI RUST PRIMER
Primer Consumption	100 - 200 g/ m ²	100 - 200 g/ m ²	100 - 200 g/ m ²	X	X	250 - 350 g/ m ²
Product Usage	4 layers	4 layers	4 layers	X	X	7 Layers
Product Consumption	1 - 1,5 kg/m ² (4 Layers)	1 - 1,5 kg/m ² (4 Layers)	1 - 1,5 kg/m ² (4 Layers)	X	X	3,5 kg/m ² (for 1,5 mm thickness)
Between Two Coats	4 Hours	4 Hours	4 Hours	X	X	4 Hours
Touch-free Drying	2 Hours	2 Hours	2 Hours	X	X	2 Hours
Through Drying	72 Hours	72 Hours	72 Hours	X	X	72 Hours

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

