

ISONEM[®] ANTI-FIRE PAINT PLUS

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Special Paints

Fire Resistant Paint for Steel, Reinforced Concrete and Wood Structures

It is a fire-retardant, waterbased paint which 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. Water vapor is permeable. Thanks to this feature do 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
- In all places where flammability is desired
- In schools, kindergartens, hospitals, theaters, and theaters
- Thermal power plants and industrial buildings, factories
- Military Installations
- Roofs, chimneys, fire escape
- Plasterboard wall partitions and ceilings

TECHNICAL SPECIFICATIONS

Type : Water-based, single-component

Permeability to water vapour (m) : $5s \leq 50$, CLASS II

Tensile strength (N/mm², 23°C) : 2

Water Transmission Rate (kg/m².h0,5) : ≤ 0.1 , CLASS W₃

Density (25°C, g/mL) : 1.15 ± 0.1

Solid Content (% Weight) : 64 ± 2

Applied Standard : TSE Construction Materials Fire and Acoustic Laboratuvar Directorate which is accredited by TURKAK, TSE 13501-2: 2016 Fire classification of construction products and building elements - Part 2 : Classification using data obtained from fire resistance tests (except ventilation installations). According to the results of the inspection and test report dated 20.04.2017 / 339190 / 04-17 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. ACCORDING TO THE TEST RESULTS OF TSE BUILDING MATERIALS FIRE AND ACOUSTIC LABORATORY DIRECTORATE,

Main Layer of paint (intumescent paint) : ISONEM ANTI-FIRE PAINT PLUS

Top Coat : ISONEM ANTI-FIRE PAINT Steel Class : S275JR

Nominal Protection Thickness : 1.5 mm,

Protection Way : All environment

Permitted Section Factor Range : $71 \text{ m}^{-1} \leq AM \leq 453 \text{ m}^{-1}$

Steel Classes : it is valid for the classes stated in EN 10025-1 (excluding S185). It may not be used for class E steels. The results are also valid for the artificial cuts.

Maximum Beam Depth : 600 mm

The Sides Which Are Subjected To : Being subjected to from the sides 3 and 4.

Design Steel Temperatures : $350^\circ\text{C} \leq Q_a \leq 750^\circ\text{C}$

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. A suitable primer is applied to the surface before application.

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 paint process is finished. In indoor applications, water, and high humidity exposed to interior applications. ISONEM ANTI-FIRE PAINT is applied as a top coat with a brush, roller or a suitable sprayer with consumption of 0.3-0.5 kg/m².

PACKING : 18 kg PE bucket, 13 - 18 m² / 1 bucket.

COLOR : Can be produced in any color.

CONSUMPTION : 1-1.5 kg / m² (Surface/material thickness / desired depending on the duration of the fire retardant resistance)

STORAGE : 24 months in original, unopened package, cool and dry environment.

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

General Features



Fire-retardant



B S1 d0
Fire Class



Hygienic, does not contain carcinogenic substances



Fast Drying



Application Conditions and Risks

Things to consider during and after the application

The application surfaces must be clean and free from dirt, oil, rust etc..

Applicable temperature

Between +5 and +35°C

ISONEM products for surface preparation

ISONEM Universal Primer should be used as a primer.

Application recommendation

ISONEM Anti-Fire Paint should be applied on the surfaces exposed to water and moisture. The information on consumption and through-dry time depend on manufacturer instructions for Epoxy Shop Primer or Anti Rust Primer.

Surface Floor



Concrete



Marble, Granite



Raw wood



Tile & Ceramic



Membrane, Shingle etc.



Steel & Metal

	Concrete	Marble, Granite	Raw wood	Tile & Ceramic	Membrane, Shingle etc.	Steel & Metal
Application	Perpendicular to each layers	X	Perpendicular to each layers	X	Perpendicular to each layers	Perpendicular to each layers.
Surface Humidity	Dry / Slightly Humid	X	Dry / Slightly Humid	X	Dry / Slightly Humid	Dry / Slightly Humid
Application Tools	Roller (synthetic epoxy), brush, spray	X	Roller (synthetic epoxy), brush, spray	X	Roller (synthetic epoxy), brush, spray	Roller (synthetic epoxy), brush, spray
Primer Usage	ISONEM UNIVERSAL PRIMER (1:7 diluted with water, 1 part primer, 7 part water)	X	ISONEM UNIVERSAL PRIMER (1:7 diluted with water, 1 part primer, 7 part water)	X	ISONEM UNIVERSAL PRIMER (1:7 diluted with water, 1 part primer, 7 part water)	Epoxy Shop Primer / AntiRust
Primer.Conspt	100 - 200 gr / m ²	X	100 - 200 gr / m ²	X	100 - 200 gr / m ²	Consult manufacturer
Product Usage	4 Layers	X	4 Layers	X	4 Layers	4 Layers
Product.Conspt	1 - 1.5 kg/m ²	X	1 - 1.5 kg/m ²	X	1 - 1.5 kg/m ²	1 - 1.5 kg/m ²
Betw.Two.Coats	4 Hours	X	4 Hours	X	4 Hours	4 Hours
Application	24 Hours	X	24 Hours	X	24 Hours	24 Hours



The information given in this technical data sheet has been prepared according to our knowledge, experiment results, and experiences. The correct and successful implementation of our products is completely beyond our control and responsibility. For this reason, our responsibility is limited to the quality of our product only, and this manual overrides all previous technical statements, descriptions and label information.

“ Our products are not classified by Biocidal Products Regulation ”

