

ISONEM[®] ANTIFIRE PAINT PLUS



Fireproofing Paint Resistant up to 120 minutes for Steel and Wooden Structures

This water based fireproofing paint provides protection against fire for up to 120 minutes. The paint is intumescent and expands to provide insulation against fire. The paint is brushed on to the surface, where it cures to form an uninterrupted layer. The paint is flame retardant and when in contact with flame, expands due to a chemical reaction, preventing the surface from reaching the critical temperature. The paint also allows for the permeability of water vapour. Thanks to this quality, the surface upon which the paint is applied is able to breathe. The paint may be used on wood, concrete, prefabricated and steel structures to great effect.

TECHNICAL SPECIFICATIONS: •Colour: White or any other requested colour •Density: 1,15±0,05 kg/lit •Solid Matter (by weight): 60% ± 2% •PH: 7-9 •Curing Time: 6 hours •Application Temperature: + 5 °C or more •Tensile Strength: 2 N/mm at 23°C •Fireproofing Characteristics: Compliance to TS 13501-1/January 2010 Table 1B, Conditions S1d0 according to experiment and examination report TS ISO 11925-2 dated 02.2012 no. 139921, performed according to standard TS EN 13823:March 2010

According to the laboratory test results of the Turkish Standards Institute Experiment and Calibration Centre:

Compliance of sample tested to EN 13501-1B (European Standard) when in contact with flame: Passed

When samples were tested according to TS EN ISO 11925-2; •The sample did not catch fire •The flames did not reach the 150 mm measurement line during the experiment •The sample did not drip •The filter paper did not burn •The experimental sample melted somewhat •The lateral flame did not spread down the longer axis •Fiery particles or droplets $f < 10s$ and $f > 10s$ were not observed •Smoke from the sample did not disperse into the room •The experiment was not ended early •The sample did not distort or collapse.

SUMMARY OF TSE TEST RESULTS:

•Averagea FIGRA value (W/s): 17.24 •Average THR600s (MJ): 0.93 •Average SMORA value (m^2/s^2) 10.58 •Average TSP600s (m^2): 51,86 •LFS spread to the edge (mm): Not observed •Burning droplets/particles $< 10s$: Not observed •Burning droplets/ particles $< 10s$: Not observed

Conclusion: ISONEM ANTI FIRE PAINT PLUS complies to TS 13501-1/January 2010 Table 1B, Conditions S1d0 according to experiment and examination report TS ISO 11925-2 dated 02.2012 no. 139921, performed according to standard TS EN 13823:March 2010

Surface Preparation: Before application, all surfaces must be clean and dry, cleansed of oil, dirt, mud and other similar substances. Before use, open the packaging and stir to ensure homogeneity.

AREAS OF USE: •All types of plastered, painted and unpainted internal and external surfaces •Concrete, wooden and steel structures •Roofs and fire escapes •All areas that need to be fireproofed •Schools, daycare centres, hospitals, theatre and cinema halls •plasterboard sections and ceilings •Chimneys •Power plants and industrial buildings and factories •Military installations

APPLICATION: The paint can be applied using a brush, roller or a suitable paint gun. Before application of ISONEM ANTIFIRE PAINT PLUS any suitable kind of primer should be applied. After the primer has cured, apply two full coats without diluting, leaving the paint to dry for 4 hours between coats. ISONEM ANTIFIRE PAINT PLUS should be applied as a protective paint at 300 - 500 gr/sqm consumption on top of ISONEM ANTIFIRE PAINT PLUS.

PACKAGING: 18 kg. PE bucket

CONSUMPTION: Approximately 1-1.5 kg/ m² according to the surface, thickness and desired fire protection.

STORAGE CONDITIONS/SHELF LIFE: 12 months from date of production if stored properly in unopened and undamaged original sealed containers at temperatures between +5°C to +35°C at dry conditions. Protect from excessive temperature and frost.

SHELF LIFE: 12 months from the date of production, under suitable storage conditions. Use rapidly after the packaging has been opened.

SAFETY: During application, clothing, gloves, eyewear and masks complying to occupational health and safety rules must be worn. Uncured paint is an irritant and must not come into contact with skin and eyes. If the skin and eyes come into contact with the paint, wash immediately with soap and water. If swallowed contact a doctor immediately. Food and beverages should not be consumed in the application area. Store where children cannot reach.

For more information, see the Material Safety Data Sheet.

