

# ISONEM<sup>®</sup> ANTIFIRE WOOD VARNISH

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Special Paints

## Fire Retardant Wood Varnish

ISONEM Antifire Wood Varnish is a fire resistant, water based, intumescent and transparent thin film coating used for the protection of the wooden surfaces in the interior against fire. In the outdoor applications, the Antifire Wood Varnish applied surfaces must be protected by water-based wood varnish application. Thanks to its transparent structure, when applied, it provides a surface with a highly fire-retardant performance without changing the color of the surface. If a different color is desired, a coloring agent may be applied to the surface before the application. It is environmentally friendly. It does not contain VOC and solvent, it is extremely simple to apply.

### SPECIFICATIONS

- **Type** : Two-component, water-based
- **Color** : Transparent
- **Density (25°C, g/mL)** : 1.45 g / ml ± 0.10
- **Viscosity (25 ° C, mPa.s)** : 1500 - 2500
- **Dust-free drying (25°C)** : 18 - 24 hours
- **Hard drying (25°C)** : 3 days
- **Through drying (25°C)** : 7 days
- **Temperature Time**  
+25°C ~45 Min.
- **Minutes Mixing Ratio** : 2/1 [by weight]

### USAGE AREAS

- Raw wood surfaces,
- Wooden doors
- Interior furniture,
- Historical monuments,
- Finished wooden buildings,
- Hotels, theaters, entertainment venues, computer rooms, and other public facilities

### FEATURES / ADVANTAGES

- Water based, environmentally friendly.
- Prevents spreading of the flames on the wooden surface.
- With its superior fire-retardant performance, prevents the wood from being ignited immediately.
- Slows down the speed of fire progress.
- Does not emit toxic fumes.
- Provides additional safety against fire in closed and risky places where people are gathered.
- Easy to use. Can be applied with a spray / brush / roll.

### APPLICATION INFORMATION

**Surface Preparation** : Application surfaces should be cleaned from all kinds of oil, dirt, dust and surface wastes and must be completely dry and clean.

**Preparation of the mixture** : ISONEM ANTIFIRE WOOD VARNISH is supplied in ready-to-use kits according to the mixing ratio. Prepare an amount of mixture to be applied by considering the mixture life. Before starting to mix, make sure that temperatures of the materials are between +15 and +25°C. Stir component A with a 300 – 400 rpm mechanical mixer for 3-4 minutes without dragging air in it. Then, pour the entire component B into component A and make sure that no material is left in component B. Stir component A and B at least for 3 min. until a homogenous mixture is obtained and consume the prepared mixture within 40-45 minutes.

**Application Method** : ISONEM ANTIFIRE WOOD VARNISH should be applied by brush, roller or spray to obtain the desired thickness, it should be applied as 2 or 3 coats, wait for 18 - 24 hours for each coat.

**CONSUMPTION** : Approximately 0.300 - 0.500 kg / m<sup>2</sup> (2 layers application) depending on the surface Min. 3 - 5 m<sup>2</sup> / 1 set.

**PACKAGE** : 1.5 kg set - A Component, 1 kg canister + B Component, 0.5 kg canister (hardener)

**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 72 hours during and after the application.

### General Features



Water Based



B S1 d0  
Fire Class



Transparent.  
Does not disturb  
the natural color  
and texture



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 +15 and +20°C

ISONEM products for surface preparation

X

Surface Floor	Concrete	Marble, Granite	Raw wood	Tile & Ceramic	Membrane, Shingle etc.	Steel & Metal
Application	X	X	Same direction as the first layer	X	X	X
Surface Humidity	X	X	Dry	X	X	X
Application Tools	X	X	Roller (synthetic epoxy), brush, spray	X	X	X
Primer Usage	X	X	X	X	X	X
Primer Conspt	X	X	X	X	X	X
Product Usage	X	X	2 Layers	X	X	X
Product Conspt	X	X	0.300 - 0.500 g/m <sup>2</sup>	X	X	X
Betw.Two.Coats	X	X	18 - 24 Hours	X	X	X
Application	X	X	7 Days	X	X	X



SZUTEST



Finishing



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 "