



# ANTI FIRE 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. The Antifire Wood Varnish applied surfaces must be protected by **ISONEM LIQUID GLASS** liquid glass application from water and humidity. 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.

## FEATURES / ADVANTAGES

- Water-based, environmentally friendly.
- Prevents spreading of the flame 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 using. It can be applied with a spray/brush/roll.

## USAGE AREAS

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

## 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 mixture** : **ISONEM ANTI FIRE 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 ANTI FIRE 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. **ISONEM Antifire Wood**

**Varnish** is not water and moisture resistant. Therefore, after the product fully dry, the following day should be applied as a solvent-based **ISONEM Liquid Glass** protective topcoat in 2 coats and waiting for a minimum of 4 hours between coats.

## TECHNICAL SPECIFICATIONS

- **Density A comp. (25°C, g/mL)** : 1,25 ± 0,10
- **Viscosity A comp. (25°C, mPa.s)** : 500 - 1500
- **Density B comp. (25°C, g/mL)** : 1,45 ± 0,10
- **Viscosity B comp. (25°C, mPa.s)** : 2000 - 3000
- **Density A+B comp. (25°C, g/mL)** : 1,27 ± 0,10
- **Viscosity A+B comp. (25°C, mPa.s)** : 1500 - 2500
- **Pot life (23°C)** : 30 minutes
- **Solvent** : Water
- **Color** : Transparent
- **Product consumption** : 0,3 - 0,5 kg/m<sup>2</sup> (2 layers)
- **Paintable (Coverage) Area** : 3 - 5 m<sup>2</sup> /set

## PACKAGING & STORAGE

- **Packaging** : 1,5 kg set (Component A: 1 kg, Component B: 0.5 kg)
- **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 72 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	After the product fully dry, the following day should be applied as a solvent-based ISONEM Liquid Glass protective topcoat.
Application temperature	It should be applied between 5 - 20°C.

## General Features



Water Based



B S1 d0  
Fire Class



Transparent.  
Does not disturb the natural color and texture



CONCRETE



MARBLE, GRANITE



RAW WOOD



TILE, CERAMICS



MEMBRANE, SHINGLE



STEEL, METAL

	CONCRETE	MARBLE, GRANITE	RAW WOOD	TILE, CERAMICS	MEMBRANE, SHINGLE	STEEL, METAL
Application	X	X	In the same direction as the first layer	X	X	X
Surface Humidity	X	X	Dry surface	X	X	X
Application Tools	X	X	Roller, brush, spray	X	X	X
Primer Usage	X	X	X	X	X	X
Primer Consumption	X	X	X	X	X	X
Product Usage	X	X	2 Layers	X	X	X
Product Consumption	X	X	0.300 - 0.500 kg/m <sup>2</sup> (2 Layers)	X	X	X
Between Two Coats	X	X	18 - 24 Hours	X	X	X
Touch-free Drying	X	X	18 - 24 Hours	X	X	X
Through Drying	X	X	7 Days	X	X	X

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

