



# FLOOR 2K

**SOLVENT-FREE EPOXY BASED COATING**, the interior surface coating system which is solvent-free epoxy resin-based, very high chemical, and physical resistance coatings creating and can be applied in the form of thick coats, developed for protection to concrete and metal surfaces against chemical and physical external effects.

## USAGE AREAS

- In industrial facilities, factories, refineries, pharmaceutical, and food production areas, hospitals, schools, stores, warehouses,
- It is used as a durable long-life coating in acid production plants, chemical factories, laboratories, automotive industry areas, treatment plants, water tanks, metal, and concrete floors and walls.

## APPLICATION INFORMATION

**For the concrete surface:** Concrete surfaces must be free of all oil, dirt, dust and loose material, contamination and must be completely dry and clean. For new poured concrete surfaces, the drying time 21 days should be waited, after of concrete set, the application should be started. Before the application of **ISONEM FLOOR 2K**, the surface should be primed with **ISONEM EP PRIMER** (epoxy-based primer) with a consumption of 0,250 - 0,400 kg/m<sup>2</sup>.

**For the steel and metal surface:** Metal surfaces to be applied must be completely free of all kinds of oil, dust, rust and similar materials that will prevent the paint from sticking to the surface between the paint and the floor. If there is old epoxy paint on the surface and cannot be removed, the surface of the old paint should be roughened with sandpaper and cleaned with solvent. Before **ISONEM FLOOR 2K** application, the surface should be primed with **ISONEM ANTI RUST PRIMER** (Anticorrosive Primer) with a consumption of 0,250 - 0,400 kg/m<sup>2</sup>.

**Preparation of the mixture:** First, open the box of the solvent-free paint ( component A ) and stir for a few minutes. Then, by adding the hardener (B-Component), the mixture is mixed for a further two minutes until the mixture is homogeneous. It is very important to mix the material in the specified mixing ratio.

**Application Method:** The mixture is applied to the prepared surface with a brush, roller or a suitable sprayer. The second layer application should be made as soon as the first layer dry, before exceed 24 hours. The application must always be in the same direction.

## TECHNICAL SPECIFICATIONS

- **Density A comp. (25°C, g/mL)** : 1,55 ± 0,10
- **Viscosity A comp. (25°C, mPa.s)** : 3000 - 5000
- **Solid content (% Weight)** : 100
- **Water transmission rate (kg/ m<sup>2</sup>. h<sup>0,5</sup>)** : < 0,1 CLASS W<sub>3</sub>
- **Adhesion strength by pull-off test (N/mm<sup>2</sup>)** : Rigid system without trafficking ≥ 1.0 N/mm<sup>2</sup>, with trafficking ≥ 2,0 N/mm<sup>2</sup>
- **Permeability to water vapour (m)** : 5 ≤ S<sub>p</sub> ≤ 50 CLASS II
- **Pot life (23°C)** : 30 - 40 minutes
- **Solvent** : Organic solvent
- **Color** : Produced in RAL colors
- **Product consumption** : 1 kg/m<sup>2</sup> (two layers application)
- **Paintable (Coverage) Area** : 2,5 / 2,5 kg set, 5 m<sup>2</sup> / 5 kg set

## PACKAGING & STORAGE

- **Packaging** : 2,5 kg set (Component A: 2 kg + Component B: 0,5 kg)
- **Storage temperature (°C)** : 5 kg set (Component A: 4 kg + Component B: 1 kg)
- **Shelf life** : 5 - 35 °C
- **Storage condition** : 24 months from date of production if stored in original, unopened, undamaged packages. Store tightly closed in a dry and cool place away from heat and fire.

## IMPORTANT

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

**IT IS SUITABLE FOR INTERIOR USING ONLY.**

## 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. **FLOOR 2K** should be applied within 6 - 24 hours before the primer is completely dry.

**Other ISONEM products recommended**

In primer application, **ISONEM EP PRIMER** or **ISONEM ANTI RUST PRIMER** specified in the table below should be used depending on the application surface.

**Application temperature**

It should be applied between 5 - 35°C.



## General Features



Food grade



C fl S1  
Fire Class



Excellent Adhesion



Chemical Resistance



Physical Resistance

	CONCRETE	MARBLE, GRANITE	RAW WOOD	TILE, CERAMICS	MEMBRANE, SHINGLE	STEEL, METAL
Application	In the same direction as the first layer	In the same direction as the first layer	In the same direction as the first layer	In the same direction as the first layer	X	In the same direction as the first layer
Surface Humidity	Dry surface	Dry surface	Dry surface	Dry surface	X	Dry surface
Application Tools	Roller, brush, spray	Roller, brush, spray	Roller, brush, spray	Roller, brush, spray	X	Roller, brush, spray
Primer Usage	ISONEM EP PRIMER	ISONEM EP PRIMER	ISONEM EP PRIMER	ISONEM EP PRIMER	X	ISONEM ANTI RUST PRIMER
Primer Consumption	0,250 - 0,400 kg/m <sup>2</sup>	0,250 - 0,400 kg/m <sup>2</sup>	0,250 - 0,400 kg/m <sup>2</sup>	0,250 - 0,400 kg/m <sup>2</sup>	X	0,250 - 0,350 kg/m <sup>2</sup>
Product Usage	2 Layers	2 Layers	2 Layers	2 Layers	X	2 Layers
Product Consumption	1 kg/m <sup>2</sup> (2 Layers)	1 kg/m <sup>2</sup> (2 Layers)	1 kg/m <sup>2</sup> (2 Layers)	1 kg/m <sup>2</sup> (2 Layers)	X	1 kg/m <sup>2</sup> (2 Layers)
Between Two Coats	6 - 24 Hours	6 - 24 Hours	6 - 24 Hours	6 - 24 Hours	X	6 - 24 Hours
Touch-free Drying	6 Hours	6 Hours	6 Hours	6 Hours	X	6 Hours
Through Drying	7 Days	7 Days	7 Days	7 Days	X	7 Days

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

