



# M 35

It is a single component cement-based super crystalline waterproofing product. It provides insulation deeply by way of applying to concrete surfaces from both negative and positive sides. It reacts with lime particles thanks to inside super gels, produces crystals, and penetrates in-depth to the structure of concrete. It can be applied to new concrete surfaces. It slows down the hydration process on the surface it is applied to and reduces shrinkage crack formation. In addition to waterproofing, it protects concrete against corrosion and diluted chemicals.

## USAGE AREAS

- Waterproofing of horizontal/vertical floors and walls, internally or externally,
- Water tank, wastewater, and other water tanks,
- In concrete surfaces exposed to seawater,
- In the basement floor and underground insulation,
- In the insulation of the basic curtain walls internally or externally,
- Irrigation channels and tunnel or dam structures.

## APPLICATION INFORMATION

**Surface preparation:** The application surfaces should be dampened previously. The dampening process is made until the surface is saturated 2 hours before starting the application. This process is not necessary if the surface is damp or wet beforehand. The application surfaces should be cleaned from particles such as oil, dirt, mud. If there are segregation, concrete disturbances, and holes, firstly these should be repaired with **ISONEM M 03** Elastic Repair Mortar with applying **ISONEM D 10 LATEX**. Dilatations should be filled with **ISONEM A4** elastic filler in advance. The mixture should be prepared after the surface is ready.

**Preparation of the mixture:** 7 L of clean water is poured into a suitable container. While continuous mixing **ISONEM M 35** (20 kg) should be poured slowly and stirring should be continued for 5 minutes. If possible, mix with a 400 rpm drill and mixer. When the mixing process is completed, it is obtained a paint-like mortar that can be applied with a homogeneous brush.

**Application Method:** The application is applied in three coats by brush, wait for 4 hours between the layers. The application should be applied in opposite directions on each layer. The surface should completely close when it is applied to the surface by three layers. The application should not be done in frost and extreme temperatures and should be carried out in cool environments during the evening or early morning. If a frost occurs in cold areas, the floor or wall should be pre-watered with hot water. If the surface will not be covered and the plaster will not be applied after The **M 35** application, the application surfaces should be humidified at 48 hours intervals. This process accelerates the curing process and provides more successful insulation.

## TECHNICAL SPECIFICATIONS

- pH (25°C) : 12.0 – 13.0
- 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>) : Crack bridging flexible systems without trafficking ≥ 0.8, with trafficking 1.5 N/mm<sup>2</sup>
- Permeability to water vapour (m) : 5 ≤ S<sub>D</sub> ≤ 50 CLASS II
- Solvent : Water
- Color : Grey
- Product consumption : 2 - 3 kg/m<sup>2</sup> (three layers application)
- Paintable (Coverage) Area : 6 - 10 m<sup>2</sup>/ Craft bag

## PACKAGING & STORAGE

- Packaging : 20 kg in Craft bag
- 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 24 hours during and after the application.

The application should not be done at extremely high temperatures or during frost.

## 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**

**ISONEM D 10 LATEX + ISONEM M 03** for segregation and concrete defects and rod holes, **ISONEM A4** for dilatations.

**Application temperature**

It should be applied between 5 - 35°C.



## General Features



Provides %100 Waterproofing



A2 S1 d0 Fire Class



Chemical Resistance



Physical Resistance

	CONCRETE	MARBLE, GRANITE	RAW WOOD	TILE, CERAMICS	MEMBRANE, SHINGLE	STEEL, METAL
Application	In perpendicular layers to each other	X	X	X	X	X
Surface Humidity	Humid Surface	X	X	X	X	X
Application Tools	Brush, suitable spray	X	X	X	X	X
Primer Usage	X	X	X	X	X	X
Primer Consumption	X	X	X	X	X	X
Product Usage	3 Layers	X	X	X	X	X
Product Consumption	2-3 kg/m <sup>2</sup> [ 3 Layers ]	X	X	X	X	X
Between Two Coats	2 - 4 Hours	X	X	X	X	X
Touch-free Drying	2 - 3 Hours	X	X	X	X	X
Through Drying	28 Days	X	X	X	X	X

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

