MD 28

It is a cement-based, two-component, crack bridging capacity and walkable an insulating product having high abrasion resistance. It is applied by brush, has high elasticity. It closes the capillary and shrinkage cracks on the applied surface. It has high adherence. It adheres perfectly to surfaces like concrete, plaster, screed, etc. and does not get removed by time. It is resistant to outdoor weather conditions, UV, mechanical impacts and abrasion. It is water based, acrylic emulsion and cement based, two components.

USAGE AREAS
• In positive insulation of walls and floors,
• In concrete, plaster and screed insulations,
• Balcony, terrace, swimming pools,
• Wet area, shower and bath places,
• External curtain wall insulation,
• Precast and prefabricated elements, roofs.

APPLICATION INFORMATION
Surface preparation: All surfaces should be cleaned from foreign objects like oil, dust, dirt, etc. before the application. The surface must be clean and moist. If there are any segregations, voids or need for repair on the surface, they should be filled with **ISONEM M 03** elastic mortar. If there are surfaces with adhesion problems, they should be primed with adherence enhancer I**SONEM D 10 LATEX** and **ISONEM MD 28** should be applied while the surface is slightly sticky and before it is completely dry.
Preparation of the mixture: ISONEM MD 28 consists of two components. The first part is component A consisting of powder polymer and hardener and the second component is liquid component B consisting of liquid polymer. B component (10 kg) in liquid form is placed in a clean, sufficiently large container. A component (20 kg) of powder is slowly added to the continuous mixing liquid with the aid of a mixer and gently mixed so that no lumps remain. Mixing should be continued for 5 minutes. At the end of the mixing, a homogenous, brushable mortar is obtained.
Application method: ISONEM MD 28 should be applied in 3 coats. The application process should be perpendicular layers to each other, homogeneously and smoothly with the help of a brush. The wet film thickness should not exceed 1 mm at one layer. It should be waited a min. of 4 hours between the coats and it should not be interrupted for more than 24 hours. The application should not be done in extreme heat or frost, it should be done in the morning or evening cool. It is recommended to use with grout detail in chamfer applications. Tools used should be cleaned with water at the end of the application.

TECHNICAL SPECIFICATIONS
- **Density B comp. (25°C, g/mL)** : 1.00 ± 0.10
- **pH B comp. (25°C)** : 7.0 – 9.0
- **Viscosity B comp. (25°C, mPa.s)** : 500 - 2000
- **Solid content B comp. (% Weight)** : 48 ± 2
- **Water transmission rate (kg/ m². h$^{0.5}$)** : < 0,1 CLASS W_3
- **Adhesion strength by pull-off test (N/mm²)** : Crack bridging flexible systems without trafficking ≥ 0.8, with trafficking 1.5 N/mm²
- **Permeability to water vapour (m)** : $5 \leq S_D \leq 50$ CLASS II
- **Pot life (23°C)** : 30 - 40 dakika
- **Solvent** : Water
- **Color** : Greenish gray
- **Product consumption** : 2 - 3 kg/m² (three layers application)
- **Paintable (Coverage) Area** : 10 - 15 m² /1 set

PACKAGING & STORAGE
- **Packaging** : 30 kg set, Component A 20 kg powder craft bag + B Component 10 kg liquid PE drum
- **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 D10 LATEX** for adherence and **ISONEM M 03** elastic repair mortar for surface repair.
Application temperature	It should be applied between 5 - 35°C.

General Features

Provides %100 Waterproofing

A2 S1 d0 Fire Class

Elastic Structure

UV 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	X	X	X	X	X
Primer Usage	ISONEM D 10 LATEX	X	X	X	X	X
Primer Consumption	200 mL/m²	X	X	X	X	X
Product Usage	3 layers	X	X	X	X	X
Product Consumption	2 – 3 kg/m² (3 layers)	X	X	X	X	X
Between Two Coats	4 Hours	X	X	X	X	X
Touch-free Drying	4 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.