



MD 27

ISONEM MD 27 is a semi-flexible waterproofing material containing cement and acrylic binders. It is a cement based waterproof coating which is provided new surfaces feature when it is applied to concrete, brick, etc.. It forms a semi-flexible layer and bridges the cracks. Being a flexible isolation compound with very high resistance against chlorine and seawater, **ISONEM MD 27** is highly suitable for use on places threatened by these factors.

USAGE AREAS

- For renovation of old surfaces,
- On foundations and walls subject to sea water
- Water tanks, basements, damp locations,
- On places for which waterproofing and protection is desired against salt water,
- On concrete surfaces for protection against carbonization and chlorine,
- On concrete piers and screeds near sea,
- Wet areas, shower and baths, under tiles in water retaining structures,
- On positive side insulations of the wall and grounds,
- Insulations of the concrete, plaster and alum applications,
- On balcony, terrace and swimming pools,
- On pre-cast and pre-fabricated elements, roof.

FEATURES

- Forms a carbonization-resistant cover, withstands positive pressure up to 7 bars.
- Exhibits perfect adhesion capabilities, is semi elastic and unaffected by pedestrian traffic.
- Breathes freely and is unaffected by carbon dioxide and chlorine ions, does not get affected by sunlight and UV.
- The product is ecological, has no adverse effects to human health.

APPLICATION PROCEDURE

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 the surface is dry, it should be moistened providing no accumulation. The factors reducing adherence such as oil, dust, rust should be eliminated. 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 **ISONEM D 10 LATEX** and **ISONEM MD 27** should be applied while the surface is slightly sticky and before it is completely dry.

Preparation of the mixture: **ISONEM MD 27** 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 (5 kg) in liquid form is placed in a clean, sufficiently large container and 2,5 L water added upon. A component (20 kg) of powder is slowly added to the liquid which is continuous mixing with the aid of a mixer and gently mixed so that no lumps remain. At the end of the mixing, a homogenous, applicable via brush, mortar is obtained.

Application method: **ISONEM MD 27** 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.

TECHNICAL SPECIFICATIONS

- Density B comp. (25°C, g/mL) : 1,00 ± 0,10
- pH B comp. (25°C) : 7,0 - 9,0
- Water transmission rate (kg / m² . h^{0,5}) : < 0,1 CLASS SINIF 5₃
- 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 ≤ S_p ≤ 50 CLASS II
- Pot life (23°C) : 30 - 40 minutes
- Solvent : Water
- Color : Greenish gray
- Product consumption : 2 - 3 kg/m² (three layers application)
- Paintable (Coverage) Area : 8 - 12,5 m² / 1 set

PACKAGING & STORAGE

- Packaging : 25 kg set, Component A 20 kg powder craft bag + B Component 5 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

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 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/m ²	X	X	X	X	X
Product Usage	3 layers	X	X	X	X	X
Product Consumption	2 - 3 kg/m ² (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.

