



# MS POLIA

**ISONEM MS POLIA** is a polymer with excellent properties produced in the latest technology. It is ready to use, water-based, polymer-based, UV resistant and elastic structure. It is used as insulation material on the terrace, roofs, concrete, screed, plaster, wood, metal surfaces and surfaces which were applied spray polyurethane thermal insulation. Workmanship is easy and fast.

## USAGE AREA

- Waterproofing of roofs.
- Facades
- Roofs, woods, decks
- On old-based bitumen problematic insulation
- Shingle surfaces

## APPLICATION INFORMATION

**Surface Preparation:** The surface to be insulated must be clean and dry. Any dirt, mud, rust or oil, must be removed on the surface. It is not used in areas salt efflorescence or places on water flow from the negative side. All cracks and holes should be repaired with **ISONEM M 03**. Especially in large spans and thermally insulated floors, we recommend applying 45 g/m<sup>2</sup> of insulating mesh on floors which are possible to crack. If there is dilatation in the area to be insulated, dilatation insulation should be made with **ISONEM A4** elastic filling and then insulation should be started. Before **ISONEM MS POLIA** application, **ISONEM UNIVERSAL PRIMER** (1:7 diluted with water - 1 part primer, 7 part water) insulation and paint primer should be applied one layer with 100 - 200 g/m<sup>2</sup> consumption and then is allowed to dry for 4 hours. In steel/metal surfaces, the surface should be primed with **ISONEM ANTI RUST PRIMER** (Anticorrosive primer), consumption of 0,250 - 0,350 kg/m<sup>2</sup>.

**Application Method:** **ISONEM MS POLIA** is ready to use. It should be mixed homogeneously after opening the cover and before application. **ISONEM MS POLIA** is applied on the primed surface in two layers without dilution at 4 hours intervals. Application should not be made under 5 ° C or on wet and frozen floors. It should be checked whether the correct and sufficient slope is given, especially in applications performed on flat roofs. Care should be taken to ensure that sufficient water drain is available and that there is no ponding of water on the roof or terrace.

## TECHNICAL SPECIFICATIONS

- **Density (25°C, g/mL)** : 1,30 ± 0,10
- **pH (25°C)** : 7,0 - 9,0
- **Viscosity (25°C, mPa.s)** : 16000 - 18000
- **Solid content (% Weight)** : 70 ± 2
- **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>p</sub> ≤ 50 CLASS II
- **Solvent** : Water
- **Color** : All requested can be produced in colors
- **Product consumption** : 0,8 - 1,0 kg/m<sup>2</sup> (2 layers)
- **Paintable (Coverage) Area** : 5 kg: min. 5 m<sup>2</sup>/bucket (two layers application)  
10 kg: min. 10 m<sup>2</sup>/bucket (two layers application)  
18 kg: min. 18 m<sup>2</sup>/bucket (two layers application)

## PACKAGING & STORAGE

- **Packaging** : 5,10,18 kg PP buckets
- **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.

## 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 M03** for segregation and concrete defects and rod holes, **ISONEM A4** for dilatations. In primer application, the appropriate primer selection depending on the surface is made according to the following table.

**Other ISONEM products recommended**

It should be applied between 5 - 35 °C.



## General Features



Application	in perpendicular layers to each other	X	in perpendicular layers to each other	in perpendicular layers to each other	in perpendicular layers to each other	in perpendicular layers to each other
Surface Humidity	Dry surface	X	Dry surface	Dry surface	Dry surface	Dry surface
Application Tools	Roller, brush, spray	X	Roller, brush, spray	Roller, brush, spray	Roller, brush, spray	Roller, brush, spray
Primer Usage	ISONEM UNIVERSAL PRIMER (diluted)	X	ISONEM UNIVERSAL PRIMER (diluted)	ISONEM UNIVERSAL PRIMER (diluted)	ISONEM UNIVERSAL PRIMER (diluted)	ISONEM ANTI RUST PRIMER
Primer Consumption	100 - 200 g/m <sup>2</sup>	X	100 - 200 g/m <sup>2</sup>	100 - 200 g/m <sup>2</sup>	100 - 200 g/m <sup>2</sup>	250 - 350 g/m <sup>2</sup>
Product Usage	2 layers	X	2 layers	2 layers	2 layers	2 layers
Product Consumption	0,8 - 1 kg/m <sup>2</sup> [ 2 layers ]	X	0,8 - 1 kg/m <sup>2</sup> [ 2 layers ]	0,8 - 1 kg/m <sup>2</sup> [ 2 layers ]	0,8 - 1 kg/m <sup>2</sup> [ 2 layers ]	0,8 - 1 kg/m <sup>2</sup> [ 2 layers ]
Between Two Coats	4 Hours	X	4 Hours	4 Hours	4 Hours	4 Hours
Touch-free Drying	2 Hours	X	2 Hours	2 Hours	2 Hours	2 Hours
Through Drying	72 Hours	X	72 Hours	72 Hours	72 Hours	72 Hours

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

