

## TECHNICAL DATA SHEET

# ISONEM MS POLYMER

(300 % Elastic Waterproofing Material)

### Product Description

ISONEM MS POLYMER is a pure polymer produced using the latest technology and has excellent properties. It is ready to use, UV resistant, glossy, elastic structure. It is used as exterior insulation material on terraces, roofs and wet areas, concrete, screed, plaster, wood, metal surfaces, spray polyurethane heat insulation applied surfaces. It is open to light pedestrian traffic and it has quick workmanship.

### Usage Areas

- Insulation of terrace and roofs
- Facades
- Roofs, woods
- On old-based bitumen problematic insulation
- On asphalt and concrete floors

### Technical Specifications

Density (25°C, g/mL)	: 1,05 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 13000 – 15000
Solid content (% Weight)	: 46 ± 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
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 3 hours
Through-dry time	: 72 hours
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: D-s2 d0
Color	: All requested can be produced in colors

### Application Procedure

**Surface preparation:** The floor must be strong, clean and resistant to load. All surfaces must be cleaned from oil, dirt and similar residues before application. In primer application, ISONEM MS Polymer is diluted with 200 % water (1 kg MS Polymer:2 kg water) and fed to the surface with a hard brush. The main application should be started after the primer application is waited to dry between 1 - 2 hours. In steel/metal surfaces, the surfaced 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 POLYMER is ready to use. It is applied to the primed surface in two coats with a brush, roller or a suitable sprayer. Waiting time between the coats is at least 4 hours. The product is produced in two types as "winter" and "summer". 18 - 40 °C for summer application, 5 - 17 °C for winter application.

## Application Conditions / Limitations

<b><u>Application</u></b>	: In perpendicular to each layers
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer usage</u></b>	: <b>For concrete, raw wood, membrane, shingle etc. surfaces:</b> ISONEM MS POLYMER (diluted) <b>For metal/steel surface;</b> ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m <sup>2</sup> )
<b><u>Primer consumption</u></b>	: 100 - 200 g/m <sup>2</sup>
<b><u>Product usage</u></b>	: 2 layers
<b><u>Product consumption</u></b>	: 0,8 - 1 kg/m <sup>2</sup> (Color, two layers) 0,3 – 0,5 kg/m <sup>2</sup> (Transparent, three layers)
<b><u>Paintable (Coverage) Area</u></b>	: <b><u>Color application</u></b> <b>5 kg:</b> 5 - 6 m <sup>2</sup> /bucket <b>10 kg:</b> 10 - 12 m <sup>2</sup> /bucket <b>18 kg:</b> 18 - 22 m <sup>2</sup> /bucket <b><u>Transparent application</u></b> <b>5 kg:</b> 10 - 17 m <sup>2</sup> /bucket <b>10 kg:</b> 20 - 33 m <sup>2</sup> /bucket <b>18 kg:</b> 36 - 60 m <sup>2</sup> /bucket
<b><u>Between two coats</u></b>	: 4 hours
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, spray
<b><u>Application temperature (°C)</u></b>	: 18 - 40 °C (Summer application) 5 - 17 °C (Winter application)

**Things to consider during and after the application:** The application surface must be clean and free from all impurities like dirt, oil, and mud. There should not be exposed to ponding, snow should not accumulate and also the surface should be inclined. Protect from frost.

**Other ISONEM products recommended:** In primer application, ISONEM MS POLYMER (diluted) or ISONEM ANTI RUST PRIMER should be used depending on the application surface.

## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. Depending on the climatic conditions and air temperature, you must supply the product as summer or winter. Do not apply around the dew point temperature (2 - 5 °C).

## Packaging & Storage


<b>Packaging</b>	: 5, 10, 18 kg in PP buckets
<b>Storage temperature (°C)</b>	: 5 - 35 °C
<b>Shelf life</b>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<b>Storage condition</b>	: Store tightly closed in a dry and cool place.

## Cleaning of Tools

Clean all tools and application equipment with clean water immediately after use.

## Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/İZMİR İTOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19		
2765-CPR-0136 TS EN 1504-2: Surface protection systems for concrete - Coating (MS POLYMER) DoP No: 30		
	STANDARD VALUE	CONTROL VALUE
Permeability to water vapour	Class I $S_D < 5$ m (permeable to water vapour) Class II $5 \text{ m} \leq S_D \leq 50$ m Class III $S_D > 50$ m (not permeable to water)	Class II - 40 m
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,05 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Adhesion strength by pull-off test	Without trafficking $\geq 0,8 \text{ N/mm}^2$ With trafficking $\geq 1,5 \text{ N/mm}^2$	Crack bridging flexible systems without trafficking $0,8 \text{ N/mm}^2$ with trafficking $1,5 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: D-s2 d0		

### Statement of Responsibility

The technical information and application advice given in this ISONEM Paint & Insulation Technologies publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

