

TECHNICAL DATA SHEET

ISONEM MS POLIA

(Liquid Polia Polymer)

Product Description

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 Areas

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

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 ² . h ^{0,5})	: < 0,1 CLASS W ₃
Adhesion strength by pull-off test (N/mm ²)	: Crack bridging flexible systems without trafficking ≥ 0,8, with trafficking 1,5 N/mm ²
Permeability to water vapour (m)	: 5 ≤ S _D ≤ 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-s1 d0
Color	: All requested can be produced in colors

Application Procedure

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/m² 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/m² consumption and then is allowed to dry for 4 hours. The main application should be started after the primer application is waited to dry between 4-6 hours. In steel/metal surfaces, the surfaced should be primed with ISONEM ANTI RUST PRIMER (Anticorrosive primer), consumption of 0,250 - 0,350 kg/m².

Application method: ISONEM MS POLIA is ready to use should be homogeneously mixed before application. It should not be applied under 5°C or in a wet and frozen floor. Especially in flat roof applications, it should be checked whether the correct and sufficient inclination given. It should be ensured that there is sufficient water drainage and there is no water ponding on the roof or terrace. It is applied to the surface in 2 layers by waiting 4 hours between layers.

Application Conditions / Limitations

<u>Application</u>	: In perpendicular to each layers
<u>Surface humidity</u>	: Dry surface For concrete, raw wood, membrane, shingle etc. surfaces: ISONEM UNIVERSAL PRIMER (diluted)
<u>Primer usage</u>	: For metal/steel surface; ISONEM ANTI RUST PRIMER (Consumption: 250 - 350 g/m ²)
<u>Primer consumption</u>	: 100 - 200 g/m ²
<u>Product usage</u>	: 2 layers
<u>Product consumption</u>	: 0,8 - 1,0 kg/m ² (2 layers)
<u>Paintable (Coverage) Area</u>	: 5 kg: min. 5 m ² /bucket (two layers application) 10 kg: min. 10 m ² /bucket (two layers application) 18 kg: min. 18 m ² /bucket (two layers application)
<u>Between two coats</u>	: 4 hours
<u>Recommended application tools</u>	: Roller (synthetic epoxy), brush, spray
<u>Application temperature (°C)</u>	: 5 - 35 °C
<u>Things to consider during and after the application:</u> The application surface must be clean and free from all impurities like dirt, oil, and mud.	
<u>Other ISONEM products recommended:</u> ISONEM M03 for segregation and concrete defects and rod holes, ISONEM A4 for dilatations. In primer application, ISONEM UNIVERSAL PRIMER or ISONEM NTI 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.

Packaging & Storage


<u>Packaging</u>	: 5,10,18 kg in PP buckets
<u>Storage temperature (°C)</u>	: 5 - 35 °C
<u>Shelf life</u>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<u>Storage condition</u>	: 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 POLIA) DoP No: 29		
	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 I - 1,78 m
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,012 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Adhesion strength by pull-off test	Without trafficking $\geq 1,0 \text{ N/mm}^2$ With trafficking $\geq 2,0 \text{ N/mm}^2$	Rigid system without trafficking $1,2 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: D-s1 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.

