

## TECHNICAL DATA SHEET

# ISONEM MS 80

(Transparent Waterproofing Liquid For Exterior Surfaces)

### Product Description

It is a siloxane-based transparent insulation product that makes surfaces applied water-impermeable preserving its naturalness, not deform its appearance and texture without forming a film on the absorbent surfaces on which it is applied. Because it does not form a film layer on the surface, it does not prevent, diminish or distort the breathing capacity of the building or stone. Does not make blackening and embossment. Alkali resistance is very high and so can be applied easily in new or old concretes. It prevents efflorescence and staining composed by reason of mortar of press bricks, natural, artificial stone, plasters which it is applied. It prevents the heat insulation value of buildings from being lost since it prevents wetting. Protects the building from corrosion. It also extends the life of structures.

- It is transparent, does not form a film layer, does not distort the natural image, does not give a bright image like varnish.
- In-depth work has a high penetration property
- High alkali resistance.
- Does not prevent structures from breathing.
- Long-lasting and economical.
- Prevents contamination, blackening, and discoloration caused by rain. Protects from frost damage and salt vomiting.

### Usage Areas

It is applied to all kinds of surfaces mineral-based and absorbent. For example; Gross concrete, plaster, brick, briquette, travertine, natural stone, mosaic, gas concrete; tile, etc. It is not applicable to non-absorbent surfaces such as marble, granite, glass, metal, plastic and horizontal absorbent surfaces. ISONEM MS 80 is used to protect the exterior walls of unpainted and absorbent surfaces from rain and its effects.

### Technical Specifications

Density (25°C, g/mL)	: 0,75 ± 0,10
pH (25°C)	: Not applicable (N/A)
Viscosity (25°C, mPa.s)	: 0 - 500
Solid content (% Weight)	: -
Water transmission rate (kg/ m <sup>2</sup> . h <sup>0.5</sup> )	: ≥ 10 mm, CLASS II
Adhesion strength by pull-off test (N/mm <sup>2</sup> )	: Absorption ratio <7,5 compared with the untreated specimen, absorption ratio (after immersion in alkali solution) <10%
Permeability to water vapour (m)	: > 10, CLASS II
Touch-free Drying	: 1 hour
Through-dry time	: 24 hours
Pot life (23°C)	: X
Solvent	: Organic solvent
Class of fire reaction	: Bfl S1
Color	: Transparent

## Application Procedure

**Surface preparation:** Application surfaces must be dry, solid and all kinds of dirt, oil, dust must be cleaned. It should not be applied on wet surfaces. It is ensured that the surface must be dry. The layers that reduce the absorbency of the surface should be cleaned. There should not be cracks larger than 1 mm on the application surface and should be repaired if there is any.

**Application method:** The application should be at least 2 layers against the top to bottom with the help of a brush, roller or spraying. Before the first layer dry, the second layer should be applied to a wet first layer and it ensures that the surface should be fully saturated. It should not be used flammable material during application. Eye and skin contact should be avoided, gloves and goggles should be used.

## Application Conditions / Limitations

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<b><u>Application</u></b>	: Vertical
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer usage</u></b>	: X
<b><u>Primer consumption</u></b>	: X
<b><u>Product usage</u></b>	: 2 layers
<b><u>Consumption</u></b>	: 100 - 200 mL / m <sup>2</sup>
<b><u>Paintable (Coverage) Area</u></b>	: 17,5 - 35 m <sup>2</sup> /3,5 L canister
<b><u>Between two coats</u></b>	: After the first layer application, the second layer application is started without waiting.
<b><u>Recommended application tools</u></b>	: Roller, brush, spray
<b><u>Application temperature (°C)</u></b>	: 5 – 35 °C

**Things to consider during and after the application:** The application surface must be clean and free from all impurities like dirt, oil, and mud. Before the first layer dry, the second layer should be applied to a wet first layer. Not applicable on non-absorbent surfaces and horizontal surfaces.

**Other ISONEM products recommended:** -

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## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. It should not be used flammable material during application. Eye and skin contact should be avoided, gloves and goggles should be used.

## Packaging & Storage

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<b><u>Packaging</u></b>	: 3,5 L canister
<b><u>Storage temperature (°C)</u></b>	: 5 - 35 °C
<b><u>Shelf life</u></b>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<b><u>Storage condition</u></b>	: Store tightly closed in a dry and cool place away from heat and fire.


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## Cleaning of Tools

Clean all tools and application equipment with cellulosic thinner 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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<b>Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/İZMİR İTOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19</b>		
<b>2765-CPR-0135 TS EN 1504-2: Surface protection systems for concrete - Hydrophobic impregnation (MS 80) DoP No: 27</b>		
	<b>STANDARD VALUE</b>	<b>CONTROL VALUE</b>
<b>Depth of penetration (H)</b>	Class I: < 10 mm Class II: ≥ 10 mm	Class II - 10 mm
<b>Water absorption and resistance to alkali test for hydrophobic impregnation (H)</b>	Absorption ratio < 7,5 % ,compared with the untreated specimen Absorption ratio (after immersion inalkali solution) < 10%	Absorption ratio 5% compared with the untreated specimen Absorption ratio (after immersion in alkali solution) 8%
<b>Drying rate for hydrophobic impregnation (H)</b>	Class I: >30 % Class II: >10 %	Class II - %20
Dangerous substances comply with 5.4		
Class of fire reaction: Bf1 S1		

### 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.

