

## TECHNICAL DATA SHEET

# ISONEM MS 82

(Anti-Moisture Paint)

### Product Description

ANTI MOISTURE PAINT, It is a very strong synthetic insulation paint which has been modified by special chemicals and polymers to eliminate the moisture and dampness problems in the interior and exterior walls of the buildings because of natural conditions. It can be applied to any kind of humid or dry walls, painted and unpainted surfaces. Thanks to its excellent alkali and moisture resistance, it prevents the formation of moisture on the walls and destroys if there is any. The adhesion strength in all kinds of surfaces is extremely strong, does not swell, high chemical resistance, it is not affected by UV, rain, water or salt. It is used in interior and exterior walls, in basements, in garages or in cellars, in interior walls facing north and in humid areas. It forms a film layer showing excellent moisture resistance on the surface applied. Even if the paint or wall is humid, it adheres very well to the surface. It is not affected by salt water and efflorescence. Thanks to this feature, it is also used to solve the problem of paint swelling in buildings. While ISONEM MS 82 penetrates into the walls and dries up the humidity inside the walls with the special chemicals in its ingredients. ISONEM MS 82 paints do not cause any side effects on the applied surface.

### Usage Areas

- On moist walls, on painted or non-painted walls affected by humidity
- On the interior and exterior walls of the foundation
- On the walls of the basement floor
- On surfaces and floors coated with plaster, concrete, alum, etc.
- In tunnels, on the walls of buildings facing north
- In the elimination of problems arising from humidity and moisture.

### Technical Specifications

Density A comp. (25°C, g/mL)	: 1,50 ± 0,10
pH (25°C)	: Not applicable (N/A)
Viscosity A comp. (25°C, mPa.s)	: 2000 - 4000
Solid content B comp. (% 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> )	: Rigid system without trafficking ≥ 1.0 N/mm <sup>2</sup>
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 24 hours
Through-dry time	: 72 hours
Pot life (23°C)	: X
Solvent	: Organic solvent
Class of fire reaction	: B fl S1
Color	: White

## Application Procedure

**Surface preparation:** ISONEM MS 82 anti-moisture paint is ready to use, no primer is required. Formation in black color that occurred on walls must be cleaned before application. The application surface may be humid, damp or dry. It can be applied to painted or unpainted all surfaces. If there are swelling parts on the painted surfaces, the application surfaces should be cleaned and a tough surface should be obtained by using appropriate repair mortar.

**Application method:** Open the ISONEM MS 82 cover from its original package and mix thoroughly for 3 minutes. After the mixing process, it is recommended to apply with a brush, suitable sprayer or especially synthetic epoxy roller without diluting the product to the existing surface. Apply one coat and wait for 24 hours and apply the second coat. The application areas should be ventilated well and also mask, gloves and protective glasses should be used during application.

## Application Conditions / Limitations

<b><u>Application</u></b>	: Horizontal / Vertical
<b><u>Surface humidity</u></b>	: Dry / humid 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>Product consumption</u></b>	: 500 - 600 g/m <sup>2</sup> (two layers)
<b><u>Paintable (Coverage) Area</u></b>	: 1 kg: 1,5 - 2 m <sup>2</sup> /1 can 5 kg: 8 - 10 m <sup>2</sup> /1 can
<b><u>Between two coats</u></b>	: 1 day
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush, suitable 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. During and after the application, the area must be ventilated.

**Other ISONEM products recommended:** -

## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. The application areas should be ventilated well and also mask, gloves and protective glasses should be used during application.

## Packaging & Storage


<b><u>Packaging</u></b>	: 1 kg and 5 kg can
<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.

## 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/IZMIR ITOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19</b>		
<b>2765-CPR-0135 TS EN 1504-2: Surface protection systems for concrete - Coating (MS 82) DoP No: 28</b>		
	<b>STANDARD VALUE</b>	<b>CONTROL VALUE</b>
<b>Permeability to water vapour</b>	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
<b>Capillary absorption and permeability to water</b>	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,01 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
<b>Adhesion strength by pull-off test</b>	Without trafficking $\geq 1,0 \text{ N/mm}^2$ With trafficking $\geq 2,0 \text{ N/mm}^2$	Rigid system without trafficking $1,0 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: Bfl 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.

