

## TECHNICAL DATA SHEET

# ISONEM MS MORTAR

(Acrylic Repair Mortar)

### Product Description

ACRYLIC REPAIR MORTAR is an excellent mortar consisting of special mineral fillers and polymer components, ready to use, with strong adherence ability. It never contains cement. Due to its structure, the adherence of ISONEM MS MORTAR is excellent. It is easily applied in concrete and crack repairs. It is not affected by sun, snow, rain or water. Chemical resistance is very high. If required, all kinds of paint, insulation, ceramic and marble etc. coating can be applied. It can be produced as thick and fine mortar in preferred colors. It is especially used on surfaces where waterproofing materials will be applied, for fixing surfaces and repairing cracks.

### Usage Areas

- From the outer (positive direction) filling of the rod holes in the basic walls,
- In concrete and plaster cracks,
- Segregation and cold joint repairs,
- In chamfers
- In all kinds of repairs and adhesives,
- Concrete and asphalt roads, parks and gardens,
- Correction of damaged surfaces in factory and warehouse floors,
- It is used in one time with thin or coarse plaster coating with plaster mesh instead of jacketing plaster.

### Technical Specifications

<b>Density (25°C, g/mL)</b>	: 1,70 ± 0,10
<b>pH (25°C)</b>	: 7.0 – 9.0
<b>Viscosity (25°C, mPa.s)</b>	: 15000 - 25000
<b>Solid content (% Weight)</b>	: 85 ± 2
<b>Water transmission rate (kg/ m<sup>2</sup>. h<sup>0.5</sup>)</b>	: < 0,1 CLASS W <sub>3</sub>
<b>Adhesion strength by pull-off test (N/mm<sup>2</sup>)</b>	: Crack bridging flexible systems without trafficking ≥ 0.8, with trafficking 1.5 N/mm <sup>2</sup>
<b>Permeability to water vapour (m)</b>	: S <sub>D</sub> < 5 CLASS I
<b>Touch-free Drying</b>	: 4 hours
<b>Through-dry time</b>	: 14 days
<b>Pot life (23°C)</b>	: X
<b>Solvent</b>	: Water
<b>Class of fire reaction</b>	: B S1 d0
<b>Color</b>	: White, gray, red

## Application Procedure

**Surface preparation:** First of all, the surfaces to be applied are cleaned from dust, dirt, and oil.

**Application method:** ISONEM MS MORTAR is a ready-to-use mortar. It is applied to the crack or segregation in a maximum thickness of 5 mm at one time via trowel or if the crack to be repaired is deep, it should be applied in a number of times, waiting for drying between the layers.

## Application Conditions / Limitations

<b><u>Application</u></b>	: In perpendicular to each layers
<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>	: Plaster / filler
<b><u>Product consumption</u></b>	: 0,5 kg/m <sup>2</sup> (for 1 mm thickness)
<b><u>Paintable (Coverage) Area</u></b>	: 20 m <sup>2</sup> /10 kg PP bucket (for 1 mm thickness)
<b><u>Between two coats</u></b>	: X
<b><u>Recommended application tools</u></b>	: Trowel
<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.

**Other ISONEM products recommended:** X

## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application.

## Packaging & Storage


<b><u>Packaging</u></b>	: 10 kg PP in buckets
<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.

## 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.

 2765		
<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 - Coating (MS MORTAR) DoP No: 41</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 I - 4 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 $\geq 0,8 \text{ N/mm}^2$ 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: B 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.

