

## TECHNICAL DATA SHEET

# ISONEM M 03

(Waterproof Elastic Repair Mortar)

### Product Description

It is a cement-based repair mortar with high elasticity, tightness, adhesion strength and not cracking. It is modified with polymer and fiber additives. It is an extremely resisting repair mortar in the applications which is internal tension low and thick. It is used in concrete repairs, ground preparation before waterproofing, the filling of holes and for chamfers.

### Usage Areas

- In surface repairings before waterproofing.
- Concrete, plaster and screed repairs.
- Filling of the segregation and the rod holes,
- In making and repairing construction chamfers.

### Technical Specifications

Compressive strength (Mpa)	: ≥ 10, SINIF R1
Chloride ion content (%)	: ≤ 0,05
Adhesive bond (Mpa)	: ≥ 0,8
Touch-free Drying	: 4 hours
Through-dry time	: 28 days
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: A2 S1 d0
Color	: Grey

### Application Procedure

**Surface preparation:** Application surfaces must be clean and should be dampened before. If there are residues prevent adherence like free particles, dust, dirt, mud, etc. on the application surface, they should be cleaned. Cracks or segregations to be repaired should be trenched at least 2 cm deep. Before application, we recommend that ISONEM D 10 LATEX (200 mL/m<sup>2</sup>) is applied absorber surfaces with adhesion problems. When Latex applied surfaces are near dry and slightly sticky, ISONEM M 03 should be applied.

**Application method:** ISONEM M 03 elastic mortar (25 kg) and 5 L of clean water are mixed homogeneously in a plastic container with a 400 rpm mixer. If mixing process will be manually, it should be made in smaller pieces. ISONEM D 10 LATEKS can be added to increase the adherence and water impermeability of ISONEM M 03 elastic mortar. This ratio can be made by adding 1 L ISONEM D 10 LATEX and 4 L water to 25 kg ISONEM M 03. The mixture is applied to the surface by trowel or spraying method. In very hot and very cold weather applications should be paid attention and applications made in extremely hot weather should be humidified at certain intervals.

## Application Conditions / Limitations

<b><u>Application</u></b>	: Repair mortar
<b><u>Surface humidity</u></b>	: Slightly humid / humid surface
<b><u>Primer usage</u></b>	: ISONEM D 10 LATEX
<b><u>Primer consumption</u></b>	: 200 mL/m <sup>2</sup>
<b><u>Product usage</u></b>	: Plaster / Filler
<b><u>Product consumption</u></b>	: 20 kg/m <sup>2</sup> (1 cm plaster) 1 kg (0,5 L Filler)
<b><u>Paintable (Coverage) Area</u></b>	: 1.25 m <sup>2</sup> /bucket for 1 cm thick plaster, min. 25 kg/bucket for 12,5 L space as filling
<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. The applications made in extremely hot weather should be humidified at certain intervals.

**Other ISONEM products recommended:** ISONEM D 10 LATEX should be used to increase adhesion and water impermeability.

## 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>	: 25 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.

		
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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 1504-3: Concrete repair product for non- structural repair CC mortar (based on modified hydraulic cement) (M 03) DoP No: 19</b>		
	STANDARD VALUE	CONTROL VALUE
<b>Compressive strength</b>	Class R1 $\geq 10$ Mpa	11
<b>Chloride ion content</b>	$\leq 0,05$	0,01
<b>Adhesive bond</b>	$\geq 0,8$ Mpa	0,9
<b>Reaction to fire</b>	Class A2	Class A2
Dangerous substances comply with 5.4		
Class of fire reaction: A2 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.

