

TECHNICAL DATA SHEET

ISONEM MS 20

(Capillary Plaster)

Product Description

It is a special plaster produced for the improvement of humid and damaged walls. The walls absorb to existing water which is loaded various salts like carbonate, sulfate, nitrate from the soil in different seasons via capillary canals and spaces. Then the water absorbed from the soil evaporates and the moisture trace of water and the salts absorbed from the soil remained back. These salts accumulate in the wall and the plaster over time, and when they come back in contact with moisture, they come forth from the wall by popping up the paint and even the plaster. In order to solve this problem, ISONEM MS 20 is made of capillary plaster and water is allowed to evaporate rapidly without any trace of moisture. ISONEM MS 20 contains micro-spaces that store salts and prevent their expansion. It is prevented that the salts damage to the paint and the plaster thanks to these spaces. It prevents swelling due to efflorescence. ISONEM MS 20 is hydrophobic (water repellent). It provides thermal insulation thanks to micro cavities up to 40%.

Usage Areas

- In humid walls such as bathroom, kitchen, basement,
- On the walls in contact with soil,
- Subbasements and all kinds of paint blistering.

Technical Specifications

Water retention rate (%)	: 98
Capillary water absorption rate (kg/m ³)	: 0,35
Micro-space ratio (%)	: 34
Water penetration depth (mm)	: 2
Compressive strength (Mpa)	: ≥ 10, SINIF R1
Chloride ion content (%)	: ≤ 0,05
Adhesive bond (Mpa)	: ≥ 0,8
Touch-free Drying	: 24 hours
Through-dry time	: 14 days
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: A2 S1 d0
Color	: Grey

Application Procedure

Surface preparation: The surface must be cleaned from old salt-damaged plaster and the cracks and gaps should be filled with ISONEM M03 elastic mortar.

Application method: The salt-damaged plaster layer is completely scraped off by mechanical methods. 5 L water is transferred to a suitable container. It is mixed for 5 minutes until homogenous with a mixer. The application is made in two layers. The first layer is drawn to the surface with a 5 mm thick trowel. The second layer is glued and polished by pulling 2 cm thickness after 24 hours. Paint should be made after 14 days. Breath-taking paints should be preferred when selecting the paint type.

Application Conditions / Limitations

Application	: Vertical / Horizontal
Surface humidity	: Humid surface
Primer usage	: X
Primer consumption	: X
Product usage	: 2 layers
Product consumption	: 20 kg/m ²
Paintable (Coverage) Area	: min. 1,25 m ² / bucket
Between two coats	: 24 hours
Recommended application tools	: Trowel
Application temperature (°C)	: 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: ISONEM M 03 elastic repair mortar should be used for repairing cracks and gaps.

IMPORTANT

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

Packaging & Storage

Packaging	: 25 kg PP in buckets
Storage temperature (°C)	: 5 - 35 °C
Shelf life	: 24 months from date of production if stored in original, unopened, undamaged packages.
Storage condition	: 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-0135 TS EN 1504-3: Concrete repair product for non- structural repair CC mortar (based on modified hydraulic cement) (MS 20) DoP No: 26		
	STANDARD VALUE	CONTROL VALUE
Compressive strength	Class R1 ≥ 10 Mpa	11
Chloride ion content	$\leq 0,05$	0,01
Adhesive bond	$\geq 0,8$ Mpa	0,9
Reaction to fire	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.

