

ISONEM MS 20 TECHNICAL DATA SHEET

Product Name	: ISONEM MS 20
Type	: One component, cement based capillary plaster
Compressive strength (Mpa)	: ≥ 10 , CLASS R1
Chloride ion content (%)	: $\leq 0,05$
Adhesive bond (Mpa)	: $\geq 0,8$
Solvent	: Water
Flash Point (°C)	: N/A (not applicable)
Class of Fire Reaction	: CLASS A1
Consumption	: ~ 20 kg/m ² (for 2,50 cm thickness plaster)
Pot life (hour, 20°C)	: ~ 1
Color	: Grey powder
Packaging	: 20 kg craft bag
Substrate Temperature (°C)	: 5 – 30
Application Temperature (°C)	: 5 – 30
Storage Temperature (°C)	: 5 – 35
Storage Condition/Shelf life	: 24 months from production date, if stored dry condition
Application Tools	: Spatula or trowel.

USAGE AREA

It is ideal for refurbishment of basements, vaults, and old structures. It produces a dry, efflorescent free surface. Moist walls such as the bathroom, kitchen, basement walls contacting to the soil damaged paints and foundation.

SURFACE PREPARATION

Damaged plaster layer that was damaged due to the salt accumulation should be removed mechanically. Application surface must be premoistured, structurally sound, clean and free from dust, dirt, oil, grease, loose or friable particles other contaminants(such as paint etc.).

APPLICATION METHOD

- **Mixing:**

Mixing ratio: For 20 kg bag, 4 liters water must be used. Water/Powder ratio must be 1:5 by weight. Pour water in correct proportion into a suitable mixing vessel. Add powder, whilst stirring slowly. To avoid entraining too much air mix mechanically for at least 3 minutes, using low speed electric stirrer (max. 500 rpm) in order to maintain a homogeneous mortar.

- **Application:**

ISONEM MS 20 can be applied by wet spray equipment with spatula or trowel. ISONEM MS 20 must be applied in two layers. The first layer is applied to the surface by trowel in thickness of 5 mm. The second layer is applied in thickness of 2,50 cm after 24 hours. Then it is smoothed and finished. If the surface is to be painted, it should be done after 14 days. To select the paint type, breathing paints should be taken into consideration.

- **Curing:**

The plaster must be cured with suitable curing materials to prevent premature drying out of the mortar or standard curing methods are recommended. Keep it moist if exposed to strong sunshine or wind.

FEATURES AND BENEFITS

ISONEM MS 20 is a specially produced plaster to ensure the treatment of humid and salt damaged walls. The walls absorb the water involving various salts such as the carbonate, sulphate and nitrate existing in the soil during the weather conditions at the seasons through the capillary canals and gaps. Then, such waters absorbed from the soil vaporize and the rest is seen as the humid occurrence and accumulated salts on the walls, in the course of time, such salts accumulate on the wall and inside the plaster so when they re-contact with the humid, they damage walls. To solve such problem, ISONEM MS 20 Capillary Plaster is used it ensures the water to be vaporized quickly without leaving any humid mark. ISONEM MS 20 has the micro spaces enabling to store the salts as well as to prevent the expansion. Thanks to such spaces, it is prevented the salts to damage the plaster and the paint. ISONEM MS 20 has the hydrophobic structure. It also achieves the heat insulation with micro spaces up to 40%.