



Certified MS
ISO 9001:2015
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DESCRIPTION

MISR Gypsum is a high-quality white plaster. This fine gypsum powder is made for surface finishings and decorative elements. MISR Gypsum is a high-quality white gypsum binder. is generally for casting application, molding providing moderated hardness and setting time ,make it suitable for wide variety of uses included decorative element, fiber reinforced cornices ,tile , and ceiling roses , as well as for finishing surfaces according to BS EN 13279-1:2008 type A1/7/3.

FEATURES

- Decorative work
- Molding and casting
- Finishing of traditional walls and drywall surfaces
- Repairing Cracks
- White powder in 30.3 kg bags
- Moderate setting
- Easy and quick application

METHOD OF USE

- Mixing: Weigh the necessary quantities of gypsum and water as mentioned below. Any changes of quantities will affect the characteristics of the mix. Water ratio = 65 - 75 % of powder
- Water: Use clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mix.
- Spreading: Spread the gypsum between 1 to 3 minutes on the entire surface of the water.
- Absorption: Leave the mixture for 1 to 2 mins before mixing.
- Mixing: use mechanical blending (three blade mixer, diameter of blade $\frac{1}{4}$ to $\frac{1}{3}$ x height of the mixing bucket), at a speed of 200 to 400 rpm. Avoid high speed since mixing too quick will produce an inhomogeneous mixture. Mixing time is not less than a minute
- Let the mixture rest for a minute and repeat the mixing process.

APPLICATIONS

- Internal cornices
- Traditional walls
- Drywall surfaces
- Finishing surfaces
- Concealing and filling
- Suspended ceiling
- Decorative elements and casting

- Low shrinkage
- Excellent bonding



No cracks



Molding and casting



Low shrinkage



Excellent Bonding

PHYSICAL SPECIFICATIONS

| SPECIFICATIONS | UNIT | VALUE | STANDARDS |
|----------------------------|--------------|------------|------------|
| Working time | min | 6 – 8 | ASTM C 472 |
| Initial setting time | min | 4 – 7 | ASTM C 472 |
| Final setting time | min | 15 – 19 | ASTM C 472 |
| Flexural strength | MPa | >3 | EN 13279 |
| Compressive strength | MPa | > 12.5 | ASTM C 472 |
| Particle size distribution | 150 µm sieve | > 95% pass | ASTM C 472 |
| Gypsum purity | % | > 90 | ASTM C 472 |
| Shelf life | - | one year | ASTM C 471 |

REPAIRS

- Use a damp sponge to wet the area to be repaired.
- Fill the crack or hole with Misr Gypsum using a knife and flatten it to reach a smooth surface.
- Cover the Misr Gypsum layer with one coat of plaster in case of big holes then let it dry and re-apply a second coat.

CASTING

- Pour the mixture into casting mold after preparing.
- Make sure to fill all the volume to avoid air bubbles or voids.
- Leave the mold to dry.
- Carefully remove the mold.

FINISHING

- Ensure a clean surface, free of dust or other residuals.
- Apply the first coat of Misr Gypsum using a trowel or other suitable hand tools.
- Allow the first coat to dry for up to 8 hours.
- Rub the layer using sandpaper to obtain a smooth surface
- Apply the second coat using the same technique.
- Note: the total thickness of the Misr Gypsum Layer is 2 to 3 mm.

STORAGE AND HANDLING

- Store Misr Gypsum away from incompatible material in a cool, dry, ventilated environment.
- Avoid contact with acid, water, and moisture.
- Store away from frost, high temperatures, and direct sunlight exposure.

RECOMMENDATION

- Avoid dust emittance while mixing, opening, and closing the bag. Wear appropriate personal protective equipment to avoid contact with your eyes and skin.

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Manufactured according to ASTM & EN standards by ECOBAT For Industrial Development.