MD-CAST 300

Technical Data Sheet (TDS)



Used for molding works, moinly for ceramic sonitory and tableware.

MD-CAST 300

Alpha Gypsum

MD-CAST 300 is a fine plaster consisting of high purity natural gypsum. CaSO4 · ½ H2O is the main component of the MD-CAST 300 powder; It is used for molding works, mainly for ceramic sanitary and tableware.

FEATURES

- Multicasting plaster
- Excellent strength
- Controlled expansion
- Easy to use
- High hardness
- 60-90 cycles

Applications

- Molding and casting
- Sanitary-ware
- Status

00500		ASTM STANDARD	BS EN STANDARD
SPECS	VALUE	C472/471	13279
Chemical composition	CaSo4 . ½ H2o		
Insoluble residue on sieves 60µm	< 0.5 %		
Finesse on 150 µm	0%	0-0.3	
Resistance to Compression	≥ 12.5 Mpa	>12	>6
Resistance to	\geq 12.5 MPa	>12	>6
Resistance to Bending	\geq 4.5 MPa	_	>1
Bulk density	680 - 720 kg/m ³	_	_
Water/Gypsum Ratio	70-100 %	VICAT METHOD	METHOD (4.3.2)
Initial setting time	12–17 minutes	-	KNIFE METHOD (4.4.1)
Final setting time	25-35 minutes	-	KNIFE METHOD (4.4.1)
Fluidity	16.5 – 20 cm	-	BY DISPERSAL METHOD (4-3-2)
Water absorption	30 - 40 %	-	-

STANDARDS

- ASTM C59/59 M
- BS EN 13279-1
- Iso 9001:2015



MD-CAST 300

MD-CAST 300 Alpho Gypsum

MIXING

- 1. Mixing Ratio: Weigh the necessary quantities of gypsum and water as mentioned in the TDS. Any changes of quantities will affect the characteristics of the mold (Absorption capacity, hardness, setting time expansion).
- 2. Water: Use only clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mold.
- 3. Spreading: Spread the gypsum between 1 to 3 minutes on the entire surface of the water.
- 4. Absorption: Leave the mixture for 1-2 minutes before the mixing phase.
- 5. Mixing: use mechanical blending (three blade mixer, diameter of blade ¼ to 1/3 x height of the mixing bucket), at a low speed (avoid high Speed, since mixing too quick will produce a heterogeneous mixture and low-quality mold). Mixing time should not be less than 1 minute.
- 6. Mixture is ready to use.
- 7. The MD-CAST 300 mold can be used around 70 times for casting.

STORAGE

MD-CAST 300 must be stored in its original pack.

- □ Avoid direct contact with the ground to protect it against humidity.
- Expiry date within 12 months from the production date indicated on the bag.
- Inappropriate storage or exceeding the expiry date may deteriorate the properties of the product.



MD-CAST 300 Alpha Gypsum

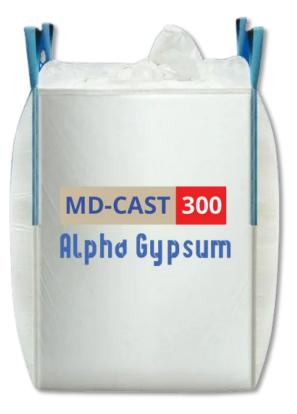
SAFETY RECOMMENDATIONS

- Product is not classified as hazardous.
- It is recommended to use safety gloves, mask and glasses when apply the product to prevent the risk of inhalation, irritation of the skin and eyes.

Packaging

- 25 kg paper bags
- Big-Bags (1/1.25 MT)







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