

ISO 9001:2015
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DESCRIPTION

Castrock™ Advanced is a multicasting white plaster consisting of high purity natural gypsum with $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ as its main component. It is used as a protective or decorative coating of walls and for molding and casting works, mainly ceramic, sanitary ware, and tableware.

Castrock™ Advanced holds the same features as Castrock™ including low expansion, low porosity, excellent strength, and hardness but with a faster setting time. It is used for all kinds of ornamental plasterwork.

PROPERTIES

- White powder
- 28 kg paper bag
- Standards : ASTM C59/59 M, BS EN 13279-1, Iso 90001 :2015

APPLICATIONS

- Ornamental plasterwork
- Molding and casting
- Ceramic
- Sanitary ware and table ware
- Statues

FEATURES

- Multicasting plaster
- Excellent strength
- Controlled expansion
- Decorative
- Low porosity
- Easy to use
- High hardness
- 80 – 120 cycles

Multicasting
plasterExcellent
strengthControlled
expansionLow
porosity

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	UNIT	VALUE	STANDARD
Chemical composition	-	CaSo4. ½ H2o	-
Insoluble residue on 60 um sieves	%	< 0.5	-
Finesse on 150 um	%	0	ASTM C 472/471
Resistance to compression	MPa	≥12.5	ASTM C 472/471
Resistance to bending	MPa	≥5.5	BS EN 13279
Bulk density	kg/m ³	680 – 720	BS EN 13279
Water/gypsum ratio	%	60	ASTM C 472/471
Initial setting time	mins	12 – 17	BS EN 13279
Final setting time	mins	25 – 35	BS EN 13279
Fluidity	mm	165 – 200	BS EN 13279
Water absorption	%	30 – 40	BS EN 13279

MIXING

- Mixing ratio: weigh the necessary quantities of gypsum and water as mentioned above. Any changes in quantities will affect the characteristics of the mold, its absorption capacity, hardness, setting time expansion.
- Water: use clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mold.
- Spreading: in 1 to 3 mins, spread Castrock™ on the entire watered surface.
- Absorption: leave the mixture for 1 to 2 mins before mixing.
- Mixing: Use mechanical blending (three blade mixer, diameter of blade ¼ to 1/3 x height of the mixing bucket). Avoid high speed mixing since it will produce a heterogeneous mixture and low-quality mold. Mix slowly for a period longer than 1 minute.
- Castrock™ mixture is ready to use. Note that it can be used around 80 to 120 times for casting.

RECOMMENDATION

- It is recommended to use safety gloves, masks and glasses when applying Castrock™ to prevent the risks of inhalation and irritation of the skin and eyes.
- Note: Castrock™ is not classified as a hazardous product.

STORAGE AND HANDLING

- Store Castrock™ in its original pack.
- Avoid direct contact with the ground to protect Castrock™ against humidity.
- Expiry date is 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.

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All specifications reflect averages derived from product sample testing and are provided as guidance only. They are subject to inherent variances and may be changed without notice to improve reliability, function, or design or otherwise.

Manufactured according to ASTM & EN standards by ASK Gypsum Factory Ltd.