



ISO 9001:2015
No.: 92200062



ISO 14001:2015
No.: 142200063



ISO 45001:2018
No.: 452200064

DESCRIPTION

Castrock™ is a multicasting plaster consisting of high purity natural gypsum. $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ is the main component of the Castrock™ powder; It is used for molding works, mainly for ceramic and sanitary and tableware.

Castrock™ is a multicasting plaster applied for sanitary ware and in molding & casting due to its low expansion, excellent strength, and hardness.

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
- 60 – 90 cycles



Multicasting
plaster



Excellent
strength



Controlled
expansion



Low
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	≥4.5	BS EN 13279
Bulk density	kg/m ³	680 – 720	BS EN 13279
Water/gypsum ratio	%	70 – 100	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 70 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.