TECHNICAL DATASHEET

JSW Cement

MORTAR RANGE

BLOCK GRIP ADHESIVE

EXCELLENT ADHESIVE FOR CURED BLOCKS

DESCRIPTION

It's a single-component thixotropic thin-bed fixing and jointing block grip adhesive. It contains an aggregate ratio of graded inert sand with cement and polymers for applications as a bond-gripping material in civil construction works. It is recommended for fixing and jointing AAC blocks, ALC blocks, cement mortar blocks, cellular concrete blocks, fly ash bricks and composite cement blocks.

FEATURES AND ADVANTAGES

- Cohesive & workable mortar
- High tensile & flexural with strong bonding
- Lesser water demand in the mix
- Consistent spread forfasterrate of application
- Uniform and smooth jointfinishes
- Reducedsurface porosity& voids
- Better coverage
- Extended application time
- Self curing
- Shock and impactresistance
- Resists waterseepage

AREA OF APPLICATION

- It is recommended for fixing and jointing AAC blocks, ALC blocks, Cement mortar blocks, Cellular concrete blocks, Fly ash bricks and Composite cement blocks.

METHOD OF APPLICATION

Surface Preparation

- Substrate must be structurally sound, needs to be cleaned and free from grease or any loose particle adhering to the surface
- SSD condition must require porous and absorbing substrates
- Substrate temperature and mortar to be maintained at below 40^{0}C for best performance

Application

- Thin-bed mortar for laying blocks: Brickwork to be dry and surface should be cleaned properly before the application of Block Grip Adhesive
- Place and spread the Block Grip Adhesive on the blockwork in thin layers of 1 mm-3 mm by using notch trowel and place the next layer of blocks firmly
- Use a rubber hammer for good bonding

Mixing

- Add 10 ltrs-11 ltrs of water for a 40 kg bag
- Pour the Block Grip Adhesive to water
- While mixing for 4-5 minutes with a mechanical stirrer/mixer to achieve better consistency
- Allow the mixture to stand for 2-3 minutes for additives to disperse evenly
- Re-mix again for about 2 minutes until mortar is ready to use

Curing

- In ambient weather conditions, curing isn't required after block work
- For porous surfaces, refer to the Block Grip Mortar (3 mm-6 mm) technical datasheet

Product Specifications

Apply by mixing the single component Block Grip Adhesive in w/p ratio of 0.25–0.27, to provide a thickness of 1mm - 3mm in compliance to reference standards - ASTM C 1660-09 & IS2250 (Grade MM5) for surface coverage. It can be achieved atapproximately 5.0 – 6.0 m2/ 40 kg bag for a 3 mm thick-bed and an overlay of the second layer of block/bricks as specified by the authority in-charge.

STANDARD COMPLIANCES

• ASTM C 1660-09 • ANSI A118.1T • IS 2250 (Grade MM5)

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PHYSICAL PROPERTIES

NATURE OF PRODUCT	CEMENTITIOUS GREY POWDER
CHEMICAL BASE	CEMENTITIOUS MORTAR MODIFIED WITH POLYMERS
THICKNESS LAYER	1 MM–3 MM
WATER DEMAND (W/P RATIO)	0.25–0.27
SELF-CURE @ 30º	NO CURING REQUIRED AFTER BLOCKWORK
OPEN TIME @ 30º	10–15 MINUTES
INITIAL HARDENING TIME	24 hrs

TECHNICAL DATA

PARAMETERS	RESULTS
Pot life @ 30ºc	120 minutes
Compressive strength @ 28 days, MPA	8–10 MPA after 28 days
Tensile splitting strength	0.45 to 0.6 MPA for 3 mm @ 28 days valid for 90% transfer
Fresh wet density (gm/cc)	1.65–1.75 gm/cc
Bulk density	1.15–1.25 gm/cc
pH of mix	10–12
Workability of mix (hours)	Approx. 2hrs-3hrs

COVERAGE

- Approx 5.0 – 6.0 m2 / 40 kg Bag at 3mm thickness (using 3 mm x 3 mm notch)

PACK SIZE

- 40 kg Bag

BEST BEFORE

- 12 months for sealed pack when stored in dry condition
- Should be in a dry and unpacked condition.

MARKETED BY: **JSW** Green Cement **Pvt.** Ltd.
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