

# BLOCK GRIP

## Adhesive for Autoclaved Aerated Concrete Block

### Description:

BLOCK GRIP is a pre-mixed cementitious powder adhesive composed of Portland cement, hydraulic binders, bonding agents, silica sand and special adhesives. It is formulated as a superior adhesive for AAC blocks. It can also be used to fix clay bricks to prevent clay absorption of water for adhesive mix.

When mixed with water, BLOCK GRIP produces a workable mortar which on curing has strong adhesion between blocks.

### Uses:

BLOCK GRIP can be used for laying Autoclaved Aerated Concrete blocks and clay bricks for internal and external application.

### Advantages:

- Easy to mix and apply, just add water.
- Ideal for internal and external application.
- Excellent strength and adhesion between blocks.
- Suitable for tropical climate.

### Instructions for Use:

#### Surface Preparation:

The block side surfaces should be free of loose particles, dust, dirt, grease, oil. Spray the block side surface with water before applying the mix.

#### Mixing:

Add BLOCK GRIP bag of 50 kg into a container of 10 litre clean water. Mix until a uniform lump free consistency mix is achieved. Leave the mix to stand for 5 minutes and remix before use. Use low speed mechanical mixer (200-300 rpm) with a suitable mixing paddle. The mixture remains workable for one hour after mixing at 25°C.

#### Application:

Fix the first layer of AAC blocks on concrete slab with traditional cementitious mortar. Apply a layer of BLOCK GRIP mix to the side face of the block using toothed trowel.

Place the new block to the mortar bed and apply pressure till the mortar oozes.

Apply BLOCK GRIP in thin layer to enable the continuity of the thermos-insulation of the AAC block. Pay attention that the applied layer does not form a superficial film. If this occurs, apply a fresh new layer.

Leave a space of about 2 cm between the top of block wall and the bottom of slab or beam in order to avoid formation of cracks along the wall. The cavity should be filled with compressible material.

Plastering could be applied to AAC block walls after 24 hours of fixing the blocks. Use RUSHBOND BL to apply a key coat before plastering.

### Standards:

- ASTM C1660, ASTM C109, ASTM C580, ASTM C91, ASTM C150 type 1

TECHNICAL PROPERTIES	
Appearance	Cementitious Powder
Color	Grey
Density	1.79 ± 0.03 kg/lit
Recommended Thickness	3 mm
Compressive strength@28 days (ASTM C109)	>12 N/mm <sup>2</sup>
Flexural Strength (ASTM C580)	>3.0 N/mm <sup>2</sup>
Noxiousity	None
VOC	1.0 g/L

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

### Coverage:

BLOCK GRIP can be applied in an average of 5.5 kg/m<sup>2</sup> of block side surface area.

Each 50 Kg. bag of BLOCK GRIP covers an area of 9.3 m<sup>2</sup> at a thickness of 3 mm.

\*Coverage rate is an approximate value, and subject to actual site conditions.

# BLOCK GRIP

## Packaging:

BLOCK GRIP is available in 50 kg recyclable bags.

## Storage:

Store BLOCK GRIP in dry and covered area away from direct sunlight. Keep material protected from rainfall and avoid excess compaction.

## Cleaning:

Clean with water before the product dries. Hardened material can only be removed mechanically.

## Shelf Life:

BLOCK GRIP can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

## Remarks:

- Do not apply BLOCK GRIP in rainy weather, high winds or stormy weather.
- Ensure that the first layer of block is fixed properly with perfect alignment.
- During sunny season, working area should be covered to prevent direct sun effect. Keep equipment cool and use cold water.
- The possible humidity rise is expected in the floor, it is recommended to apply proper damp course coating.
- Spray the block wall with water before applying the plaster.
- Keep 2 cm gap at the top end of the well below the slabs or the beam. Fill the gap with compressible material.

## Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

## FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water.
- Inhalation: Remove to fresh air, keep patient rested.
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to BLOCK GRIP Material Safety Data Sheet.

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