

# BLOCK GRIP PLUS

## Superior Adhesive for Autoclaved Aerated Concrete Panels and Blocks

### Description:

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

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

### Uses:

BLOCK GRIP PLUS is specially designed for bonding AAC panels. It can also 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.
- High bonding strength.
- Flexible, shock and impact resistance
- Crack resistant.
- No curing is required
- Can be applied in thin jointing with high adhesion.
- Ideal for internal and external application.
- Excellent strength and adhesion between panels.
- 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 panel side surface with water before applying the mix.

If expansion joints exist, do not cover with adhesive. Follow the ANSI specifications for the requirements for expansion joints.

#### Mixing:

Add BLOCK GRIP PLUS bag of 25 kg into a container of 4.75-5.0 litre of 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:

Apply a layer of BLOCK GRIP PLUS mix to the horizontal and vertical side surface of the panel using a 6mm toothed trowel. Apply the adhesive to a maximum of one panel at a time. Position the AAC panel gently and use rubber mallet for tapping and a spirit level to check for alignment

Apply BLOCK GRIP PLUS in thin layer (2 to 3mm) to enable the continuity of the thermos-insulation of the AAC panel. Pay attention that the applied layer does not form a superficial film before fixing the panel. If this occurs, apply a fresh new layer.

Leave a space of about 2 cm between the top of the panel 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 walls after 24 hours of fixing the panels. Use RUSHBOND BL to apply a key coat before plastering, if normal cementitious plaster is used. If PLASTOMIX C20 is used, then the plaster can be applied direct on the AAC panels or block walls without the need of rush coat.

### Standards:

- ASTM 4551, C 580
- BS 1881
- BS EN 998-2

TECHNICAL PROPERTIES	
Appearance	Cementitious Powder
Color	Grey, white
Wet Density	1.7 ± 0.03 kg/lit
Pot Life	1 hour
Recommended Thickness	3 mm
Compressive Strength @28 days (ASTM C109)	12 N/mm <sup>2</sup>
Flexural Strength (ASTM C580)	4 N/mm <sup>2</sup>

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Tensile Strength	>1 N /mm <sup>2</sup>
Noxiousity	None
VOC	2.0 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:

A 50 kg bag of BLOCK GRIP PLUS adhesive can fix 30m<sup>2</sup> of 75 mm AAC panels (1500 x 400 mm), with 6mm notched trowel.

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

## Packaging:

BLOCK GRIP PLUS is available in 25 kg recyclable bags.

## Storage:

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

## Shelf Life:

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

## Cleaning:

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

## Remarks:

- Do not apply BLOCK GRIP PLUS in rainy weather, high winds or stormy weather.
- Ensure that 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 panel 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 compressable 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 PLUS Material Safety Data Sheet.

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