

# BLOCK GRIP PLUS

## Adhesive for Autoclaved Aerated Concrete Panels

### Description:

BLOCK GRIP PLUS 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 crack free, superior, flexible, high bonding adhesive for AAC panels. 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 that generates, once cured, a high adhesive power between panels.

### 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 hot weather.

### Applications:

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.

### 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 4.5 to 5 litre of clean water. Mix until a uniform lump free consistency mix achieved. Leave the mix to stand for 5 minutes and remix before uses. 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 Rush coat 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.

### TECHNICAL PROPERTIES:

Appearance	:	Cementitious Powder
Color	:	Grey, white
Wet Density	:	1.7 kg/ Lt
Compressive strength	:	>6 N/mm <sup>2</sup> @ 28 days
Flexural Strength	:	>3 N/mm <sup>2</sup>
Tensile Strength	:	>1 N /mm <sup>2</sup>
Noxiousity	:	None
VOC	:	2.0 g/L
Pot Life	:	1 hour
Open Time	:	30 minutes
Recommended	:	3 mm
Thickness	:	

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## Coverage:

A 25 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.

## Packaging:

BLOCK GRIP PLUS is available in 25 kg recyclable bags.

## Storage:

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

## Cleaning:

Clean with water before the product dries.

## Standards:

BLOCK GRIP PLUS conforms to:

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

## Shelf Life:

Shelf life is 12 months in original unopened bag when the above conditions are met.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe dust of product.
- Avoid contact with eyes or skin.
- Provide adequate ventilation in working area.

## Remarks:

- Do not apply BLOCK GRIP PLUS in rainy weather, high winds or stormy weather.
- Ensure that first layer of block is fix proper with perfect alignment.
- During sunny season, working area should be cover to prevent direct sun effect. Keep equipment cool and used 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 comprisable material.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

