

UNICHEM BLOCK ADHESIVE

CEMENTITIOUS ADHESIVE FOR AAC BLOCKS

UCA-PP-07-0722

DESCRIPTION

UNICHEM BLOCK ADHESIVE is a powder adhesive composed of hydraulic binders, bonding agent, selected aggregates and special additives.

It is supplied as a dry powder in pre-weighed bags ready to use on site, which requires only addition of clean water to produce easily workable mortar. UNICHEM BLOCK ADHESIVE is ideal for fixing AAC blocks (autoclaved aerated concrete) & panels

USES

- ❖ For laying internal or external autoclave aerated concrete blocks & panels
- ❖ For laying other types of aerated blocks or panels
- ❖ It is recommended for fixing AAC, CLC, hollow, concrete blocks & bricks.

ADVANTAGES

- UNICHEM BLOCK ADHESIVE is designed to eliminate the need for external water curing which saves water, time and labor costs.
- Due to polymeric and mineral additives it results in improved workability, non-sag & open time.
- Less storage space: UNICHEM BLOCK ADHESIVE is ready to mix product needing only addition of water on site thereby eliminating need for bulk storage of sand and cement.
- High bond strength & good mechanical strength
- Suitable for both Internal and External applications

TYPICAL PROPERTIES

APPEARANCE	Grey cementitious powder
OPEN TIME	10 TO 15 MINUTES @ 25 °C.
POT LIFE	90 MINUTES @ 25 °C.
PACKAGING	25 Kg
COVERAGE*	6.25 m ² for 60 X 20 X 15 cm blocks @ 3 mm thickness (for 25 kg bag) *Actual coverage based on substrate condition, application method, wastage etc.
MIX RATIO (for 25 kg bag)	4.5 to 5.5 litres of water
APPLICATION THICKNESS	3 TO 10 mm
WET DENSITY	~1.85 @ (23 °C)
COMPRESSIVE STRENGTH	>10 - 11 MPa (at 28 days) BS EN 1015-11
FLEXURAL STRENGTH	~1.2 MPa (at 28 days) BS EN 1015-11
SPLITTING TENSILE STRENGTH	~0.4 MPa (at 28 days) ASTM C1660
SHOWS EXCELLENT ADHESION WITH AAC BLOCKS	

The values given above for typical properties are average figures achieved in controlled laboratory conditions. Actual values obtained on site may show minor variations from those quote

STANDARDS

UNICHEM BLOCK ADHESIVE meets the performance standards of: ASTM C1660-09, BS EN 1015-11

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INSTRUCTIONS FOR USE

SURFACE FOR PREPARATION

Pre-wet the blocks and ensure it is touch dry before masonry mortar is applied.

The surface for mounting must be thoroughly cleaned of all laitance, loose materials, oil, grease etc.

Ensure that surface is flat, structurally sound and free from any other contamination which would reduce the bond strength. The surface should be free from voids, holes and cracks.

MIXING

Add to the mixing container 4.5 to 5.5 liters of clean water per 25 kg bag of UNICHEM BLOCK ADHESIVE. Add the powder to the water and mix with a low speed electric drill (400-600 rpm) with a suitable paddle for 3 to 4 minutes until a uniform, lump free consistency is achieved.

Ensure any lumps are broken down while mixing so that maximum dispersion of polymer takes place in the mortar resulting in good bonding strength with the blocks.

Leave the mixed material to stand for at least 5 minutes and briefly remix. Refrain from addition of water at this stage

Do not attempt to extend the pot life by adding more water to the mixed adhesive. Refrain from addition of water to the mortar once mixed.

APPLICATION

• Apply the well mixed UNICHEM BLOCK ADHESIVE on the AAC block with help of notched trowel, spread mortar uniformly on the unit and firmly place the block with slight shear to ensure good transfer & bonding.

- UNICHEM BLOCK ADHESIVE is to be applied on the faces of the block and on column and beam. The material is to be applied on both surfaces as well as on the block to ensure good bonding at the joints. Spread to a uniform thickness of 3-5 mm
- Use rubber hammer to ensure good contact between the blocks
- Do not apply large areas of adhesives that cannot be covered within the open time of the adhesive
- Go on placing the blocks with above method and erect the wall.

STORAGE & SHELF LIFE

Original sealed bags of UNICHEM BLOCK ADHESIVE has a shelf life of 12 months. UNICHEM BLOCK ADHESIVE should be protected from extremes of temperature & Protect from sources of moisture and humidity

SAFETY PRECAUTIONS

Do not use any curing compounds. It is a cementitious alkaline product. Care should be taken to avoid contact with eyes, skin, mouth and food stuff. Any splashes on the human body must be washed with plenty of water.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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