

## E·MIX ALC THIN MORTAR

CEMENT-BASED PREMIXED MORTAR FOR THIN JOINTING OF ALC BLOCKS PASSING FIRE TEST BS 476

**E·MIX ALC Thin Mortar** is a high quality water resistant premixed mortar specially formulated for the laying of Autoclaved Lightweight Concrete (ALC) blocks. It is specially formulated for filling of vertical and horizontal joint for ALC wall system.



### PRODUCT BENEFITS



FOR INTERIOR & EXTERIOR



SINGLE COMPONENT



EASY TO APPLY



WATER RESISTANT

### TECHNICAL DATA & PHYSICAL PROPERTIES

<b>Colour</b>	: Grey
<b>Binder</b>	: Cement
<b>Filler</b>	: Graded limestone powder / sand
<b>Aggregate Size</b>	: 1.0 mm max
<b>Additives</b>	: Water soluble additives to improve workability, open time, bond strength, etc.
<b>Coverage</b>	: Approx. 19 m <sup>2</sup> wall area per 40 kg bag for 600 mm x 200 mm x 100 mm thick ALC Block wall or equivalent
<b>Water demand</b>	: Approx. 14.4 liters / 40 kg bag
<b>Fire Resistance</b>	: 264 minutes at 1,300°C
BS 476 : Part 22 : 1987	
<b>Adhesion to Concrete</b>	: ≥ 0.3N/mm <sup>2</sup>
<b>Compressive Strength</b>	: ≥ 7 N/mm <sup>2</sup>
BS 6319 : Part 2 : 1983	
HKHA MTS (2002/2004) Spec. Part D, Cl. 2. 1. 1	
<b>Flexural Strength</b>	: ≥ 3 N/mm <sup>2</sup>
BS 6319 : Part 3 : 1983	
<b>Shrinkage</b>	: < 1.1 mm/m
ASTM C596 - 09 25	
<b>Times Freeze-Thaw Cycle Strength Reduction</b>	: < 20%

### USAGE

- Masonry for ALC Blocks
- Interior and exterior application
- Residential and commercial
- Hospitals, schools, sports stadium and theatres and more

### FEATURES AND BENEFITS

- High water resistance.
- Improved adhesion between two blocks
- Fire resistance of over 260 minutes at 1,300°C
- Thin layer application: less consumption of mortar
- Good levelling of wall: prevent descend of blocks
- Shrinkage compensated: reduce the chance of shrinkage cracks
- Single component: fixed mixing proportion, ensure the quality of work

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### PREPARATION

- Ensure the substrate (ALC Block) is clean, structurally sound, adequately true and level to achieve specified tolerances, free from contamination, loose particles, grease, lacquer, plastics or traces of foreign materials, and protrusions such as wood peels, nails, excess mortar of any joints with tolerance that cannot be covered by the thickness of plaster.
- All cutting, chasing, fixing of concealed conduits, service outlets, fixing pads and the like and making good of the background are completed.
- Substrate is to be moistened overnight and also at the time before the installation. No stagnant or frequent water flow on substrate is allowed immediately prior to installation.

### APPLICATION / USAGE

- All substrates should be firm and clean. Substances that weaken the bond such as dust, oil, loose particles and impurities should be removed from ALC Block receiving surfaces.
- Mix one bag (40 kg) of **E.MIX ALC Thin Mortar** in approximately 14.4 liters of clean water. Use of electrical hand mixer is recommended. Allow mixture to stand for 10 minutes. Mix again and the joint mortar is ready for use.
- Ensure that joint of ALC Blocks are fully covered with the joint mortar using a notched trowel. Blocks should be jointed before film is formed on the surface of the **E.MIX ALC Thin Mortar**. Completed joints should be approximately 3 mm thick.
- Upon laying of ALC Blocks, immediately remove excess joint mortar from the surface of the joint before it sets. ALC wall should be laid to the correct alignment so that thin plasters can be applied on the completed wall internally. Allow the joint mortar to set and harden for at least 24 - 48 hours to achieve its initial bond strength.
- Natural air curing is enough for **E.MIX ALC Thin Mortar**. Water mist is not required for interior application. However, water mist is required under extremely hot or dry condition.

### PROTECTION

- Recommend to wear HIOSH approved or equivalent particulate facemask when mixing the material.
- Material contains cement, which may produce an allergic effect.
- Material may cause irritation to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.
- Keep out of reach of children.

#### Note :

Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this technical data sheet is for general guidance only

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## COVERAGE

Approximately 19 m<sup>2</sup> wall area per 40 kg bag for 600 mm x 200 mm x 100 mm thick ALC Block wall or equivalent. May vary depends on the smoothness and evenness of the substrate and the size of blocks used.

## PACKING

Available in 40kg bag

## SHELF LIFE / STORAGE

6 months if stored in a dry place.

## TECHNICAL SERVICES

For further details or recommendation please contact our Technical Advisory / Specification Center at 603-6038 9498 (KL) & 604-626 2830 (Penang)

## PRECAUTION

Avoid inhaling dust. If material enter eyes, wash out immediately with Clean Water. May cause minor skin irritation; therefore use suitable gloves. Keep out of children reach.



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