

Thin Bed

AAC Block-Join Mortar

SILICA MIX

FOUNDATION TO FINISH

**JUST ADD
WATER !!!**

READY-MIX

TECHNICAL DATA SHEET

We supply Ready-Mix Products
of different variants in
Waterproof bags!

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GENERAL INFORMATION

Product Information

SilicaMix Thin-Bed AAC Block Join / Light Weight Block Join Adhesive is grey cement dry-mix adhesive manufactured with fine quality graded sand, 53 grade cement, polymers and additives that enable thin bed application for joining blocks.

All ingredients are blended in a controlled environment to deliver consistent quality.

Product Description

Factory Mixed in accurate proportion of sand, cement, polymers and binders as per industry standard proportions to give excellent bond strength, flexibility and durability.

Benefits:

- a) Ideal for quick laying AAC blocks with a thin layer of mortar between blocks.
- b) High Strength and greater water retention properties aid stronger adherence of blocks
- c) 3mm bed application between blocks makes it more affordable and quicker than conventional
- d) 40kg bag can easily cover 160 sqft of area at 3mm thickness.
- e) This is an instant mix and just need to add water at site. With reduces workers, more coverage area, this is a far superior product compared to conventional method of block joining at site.

Availability

SilicaMix Thin-Bed AAC Block Adhesive Bags are available in and around Karnataka

For more information:

+91 96061 38202, +91 96061 38303

sales@smminfra.in

SPECIFICATIONS

Application Area

For all kind of Light Weight/AAC Blocks. Can also be used for concrete blocks, red clay bricks, cement blocks as thin bed application

Appearance

Single coated, premixed, greyish concrete ready-to-mix with clean water and apply instantly

Suitable substrates/where to use

1. AAC Blocks
2. FlyAsh Blocks
3. Red Bricks
4. Solid Cement Blocks
5. Hollow Blocks
6. Other Kind of Light Weight Blocks

Application

Recommended thickness is 3mm to 4mm between AAC blocks. A higher thickness of mortar is needed for other heavier blocks.

Coverage

One bag of 40kg thin-bed block join mortar covers 160-180 sqft of area when applied at 3mm even thickness between the blocks.

Water Demand W/W

10 litres of clean water is required for 40kg block join mortar. Mortar should be mixed thoroughly as it contains binders and admixture.

Ingredients

1. Graded sand of high quality
2. OPC 53 Grade Cement
3. Construction Chemicals which improve qualities of concreting and water requirement.
4. Performance additives that provide very good workability to the mix.

Packaging

SilicaMix Thin-Bed AAC Block Join Mortar is supplied in 40kg HDPE Laminated waterproof bags

Storage

1. Keep in a place that is dry, cool, free from moisture and water.
2. Do not keep the bags open and exposed to air
3. Do not use any piercing objects and drag the bags while unloading. Use sufficient labour and proper methods for unloading. Holes in the bags may expose the material to moisture in the air affecting the shelf life

Shelf Life

SilicaMix Thin-Bed block join mortar carries a shelf life of 6 months from the date of originally sealed packaging, when stored in cool and dry place, which may vary depending on storing environment, humidity, temperature and other parameters.

TECHNICAL DATA

Technical Data – Applicable To the variant “AAC Thin-Bed Block Join Mortar”

1. Pot Life	1.5 – 2 Hours under normal climatic conditions
2. Open Time	20 Minutes
3. Split Tensile Strength	> 0.4 MPa
4. Compressive Strength	> 7 MPa
5. Water Requirement	10 to 10.5 liters for 40kg bag

Note

The above results are based on laboratory testing and controlled environment settings. Actual field performance will depend on site conditions and skill. Specifications are subject to change without notification.

Referred Relevant Standards

ASTM-C1660-09

Technical Support & Initial Training/Demonstrations

Initial training/demonstrations will be provided by us with our masonry teams and/or technical staff as may be deemed necessary

Technical Support:

+91 72590 28536, info@smminfra.in

APPLICATION INSTRUCTIONS

Surface Preparation

1. Dry and clean	❖ The blocks should be free from dust, dirt particles, foreign particles, oil, grease, dirt, loose gravel, loose particles and other such particles which may affect the bonding ❖ The surface should be well cleaned before application, using tools such as a wire brush or other construction tools. ❖ There should not be dampness, leakage, fungus, efflorescence, etc. ❖ Glossy or painted surface should be sanded before placing the first layer of mortar and blocks.
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Mixing

1. Take a clean bucket and fill it up with clean and good quality water. 10 litre of water for each 40kg bag.
2. Cut open the block join mortar bag carefully and empty bag into bucket and mix with a slow mixer machine or hand. Add more water if needed.
3. Mix the composition nicely for 2-3 minutes with electrical stirrer or trowel.
4. If material becomes hard to mix even after 2 minutes of mixing, add additional water until a workable mix is obtained. Homogenously mixed mortar can be let stand for 5-10mins before using for better results. Stir again before using the mix from the bucket.

Application & Curing

1. Decide the level of thickness required with a minimum of 3mm thickness between the blocks for better adherence and bonding.
2. Using notch trowel apply the mortar and place next layer of blocks on the mortar. Adjust the blocks for desired vertical and horizontal alignment. Preferably use plumb bob to ensure alignment. Adjust and beat the block with beating hammer or rubber mallet.
3. Curing is not needed for thin-bed block join mortar as our mix has excellent water retention properties and is self-curing mortar.

GUIDELINES FOR IDEAL RESULTS

1. Read carefully all the instructions mentioned under “Application instructions”. Follow the instructions mentioned in all 4 sections of the instructions namely **Surface Preparation, Mixing, Application & Curing**
2. Make proper batches. Ideal batches would be of an approximate duration of 45 minutes each. Take only as much material as needed for the particular batch; mix and use. Batches can be decided depending on specific requirements. However, do not mix all at once which may affect the bonding since the material starts its plasticity once it is mixed with water.
Try to mix and use as instantly as possible for best results

3. Surface should neither be too dry to absorb the water from the mix, nor be too moist. To avoid this, use the steps mentioned before under “Application Instructions”
4. Do not reuse the mixture by adding water again.
5. Once the mix has set, do not add additional water. Decide the thickness needed before mixing, apply water accordingly and mix. Do not try to alter or redo.
6. Do not mix material from 2 different batches as the plasticity of each batch would be different
7. Avoid concreting during extreme weather conditions in terms of cold, rains, winds and summer. In case of such extreme weather conditions, protect finished works until they are completely cured
8. Maintain a good speed of mixing. The speed should not be very less if it is manual; and should not be very high if it is done using concrete mixers

SAFETY & PRECAUTIONS

No special precautions are required to be taken in respect of Ready-Mix Concrete. However the main ingredients are Crusher manufactured Silica Sand, aggregates and Portland Cement. Hence regular safety precautions which are to be followed in the usage of day to day Construction products shall be applicable.

Normal Construction field safety precautions that are required to be followed include the following:

1. Use safety accessories required to be used, would include:
 - a) Safety gloves
 - b) Safety goggles
 - c) Dust mask and nose mask
 - d) Helmet
 - e) Nose mask
2. Avoid contact with eyes; inhaling or taking internally
3. Keep the area as dust free as possible
4. After work, wash hands with soap or handwash
5. In case of accidental contact with eyes of either dry or wet mix, immediately wash your hands; make sure your hands are clean and then wash your eyes with clean water and if required, seek medical assistance

WARRANTY

SilicaMix extends warranty for its products against defects in manufacturing and quality of raw materials used for a period of 6 months from the date of original manufacture, subject to following of all instructions and guidelines prescribed in terms of usage, storing and other relevant aspects.

DISCLAIMER

All the results and facts mentioned in this document are applicable under normal conditions and when the product is used as per the instructions provided and the guidelines are followed. The company does not assume any responsibility or liability for deviations and dissatisfactions attributable to environmental, climatic, temperature, humidity aspects, etc. and to the methods of usage followed by the customer.

RECOMMENDED TOOLS

Tool	Purpose	Recommended Specifications
1. Buckets	For mixing	❖ Good Quality and Sturdy ❖ Around 20 liters capacity
2. Utility knife	To cut open the bags	We recommend using a good utility knife instead of tearing the bags open
3. Wire brush or Paint brush	To clean the surface	
4. Trowel	To mix the mortar	❖ Good Quality ❖ Stainless Steel ❖ With a comfortable, evenly weighted handle.
5. Hawk/ Hand Board	For holding additional mortar as needed.	❖ Lightweight
6. Slow Speed Mixer (If machine mixing is preferred)	For consistent and complete mixing	❖ Electrical or Diesel operated concrete mixer

All the tools are to be spotlessly cleaned after using



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CONSTRUCTION MATERIALS - FOUNDATION TO FINISH

CONTACT US

+91 96061 38303 +91 96061 38202
sales@smminfra.in, <https://smminfra.in>