

SmartGrip ALC

Lightweight Block and Panel Joint Adhesive

SmartGrip ALC is a cementitious, polymer modified joint adhesive for Autoclaved Aerated Concrete (AAC) lightweight block and panel joints. It is specially formulated to provide excellent bonding between lightweight blocks at a bedding thickness of 2 - 4mm. It is easy to mix, requiring only the addition of water.

SmartGrip ALC is specially designed to overcome on-site mixing problems such as:

- Inconsistent mix proportions
- Dependence on skilled labour
- Time consuming
- Labour intensive

FIELDS OF APPLICATION

SmartGrip ALC is used as a joint adhesive for Autoclaved Aerated Concrete (AAC) lightweight blocks and panels in the construction of non-load bearing walls and structures.

BENEFITS

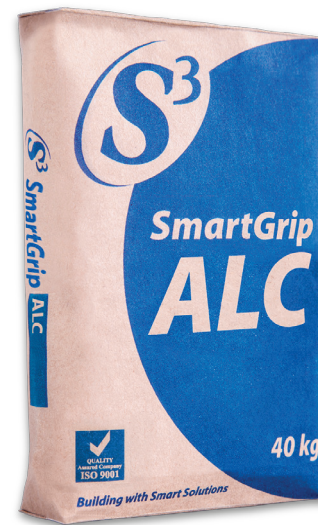
- High bonding strength
- Consistent quality
- Excellent workability
- Long pot life
- Improved durability
- Increased productivity
- Easy to use, no pre-wetting of joint surfaces required.

TECHNICAL DATA (under laboratory conditions)

PROPERTY	TYPICAL RESULTS
Density	
- Wet	1750 - 1850kg/m ³
- Dry	1600 - 1700kg/m ³
Pot Life	1 - 2 hours
Open Time	15 - 20 minutes
Bond Strength	≥ 0.5 N/mm ²
Flexure Strength	≥ 1 N/mm ²
Compressive Strength	> 10.0 N/mm ²
Coverage	Approx. 18 - 20m ² of blocks/ 40kg bag
Recommended Thickness	2 - 4mm thickness

SURFACE PREPARATION

- All Autoclaved Aerated Concrete (AAC) lightweight block & panel surfaces should be clean, dry and free from dust, oil, laitance and other contaminants prior to application of SmartGrip ALC.



MIXING

- Add 40kg of **SmartGrip ALC** to 9 - 11 litres of clean water.
- Mix with a power mixer for about 3 - 5 minutes to produce a creamy mortar.
- The resulting mix has a maximum pot life of 2 hours. Remix the mixture if left standing for more than 30 minutes.

PLACING

- Apply **SmartGrip ALC** to a thickness of 2 - 4mm on the block joint using the appropriate notched trowel.
- Work the joint adhesive into good contact with the block surface using a notched trowel.
- Check the adhesive constantly to prevent surface skin formation. If a surface skin forms, the adhesive should be re-trowelled.
- It is not necessary to wet the lightweight blocks before laying. If the blocks are dusty, they should be brushed or air-sprayed to remove the dust before application.
- Firmly set and adjust the block using a rubber mallet to ensure proper bond and alignment.
- For better bonding, the blocks should be laid over the adhesive as soon as it is applied.
- Any excess **SmartGrip ALC** that flows out of the lightweight blocks upon laying can be removed with a scraper.

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/ herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

COVERAGE / YIELD

- For Autoclaved Aerated Concrete (AAC) blocks of different size, the coverage of **SmartGrip ALC** (for a 3mm layer) is as follows :-

Block Size (mm)	Thickness (mm)	Coverage (kg/m ²)
600 X 200 X 300	3	3.2
600 X 400 X 100	3	2.1

PRECAUTIONS

- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of water. Seek medical help immediately.

PACKAGING & STORAGE

SmartGrip ALC is supplied in 40 kg bags and has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight.

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