



AAC BLOCK ADHESIVE

High Performance Light Weight Block Adhesive

Dubond's AAC Block Adhesive is a versatile thin jointing material for laying AAC blocks, fly ash bricks, concrete blocks etc. The product is specially designed to provide higher bonding as a result of higher tensile adhesion strength. AAC Block Adhesive is pre-mixed, easy to apply high quality mortar comprising of cement, graded sand and admixtures. AAC Block Adhesive replaces conventional jointing mortar of 12-18 mm thickness with highly versatile 3-5 mm thickness.

Dubond's AAC Block Adhesive helps to speed up the build process and achieve the required insulation performance of AAC Blocks for the buildings. AAC Block Adhesive (Thin joint masonry) is a fast, clean, accurate system for construction using autoclaved aerated concrete blocks of close dimensional tolerance with 2mm - 3mm mortar joints.

Features and Benefits

- Thin jointing material with very high adhesion strength
- Pre-mixed and ready-to-use. Only water is to be mixed at site
- Economical. Eliminates lengthy and cumbersome processes of site mixing, thus transport and storage of all individual materials is avoided
- Easy to mix and much faster application
- Thin layer application results in structure being compact
- No water curing is required after application
- Minimizes the undulation of the surface
- Being a thin layer, chances of water percolation is negligible
- Being premixed, it saves considerable time and labour
- Ready for subsequent application like plastering just after 24 hours of application
- Eco-friendly product
- Raw materials are processed, reducing the chances of efflorescence

Areas of Application

- Laying and jointing of fly ash bricks, cement blocks, hollow blocks, AAC blocks etc.
- Jointing of pre-stressed concrete slabs, panels.
- Parapet walls
- Jointing of cement window and door frames.
- Garden and boundary walls.



Usage Instruction

■ Surface Preparation

- The base surface should be properly cured prior to application of AAC Block Adhesive.
- The surface must be cleaned thoroughly, with no loose particles or dust.
- The surface must be structurally sound, clean and free from dirt, oil, grease, efflorescence and any other contaminant which could impair the natural bond.
- Surface defects such as cracks, holes or voids should be repaired prior to application.

■ Mixing

- It is very important that AAC Block Adhesive is mixed with water properly and thoroughly before use.
- It is advisable to use a mechanical stirrer for uniform and thorough mixing to save time, labour and for maximum workability.
- Take a clean vessel/bucket, add water to it and put required quantity of AAC Block Adhesive in it.
- Mixing Ratio - Clean potable water (approximately 25%-30%) of the weight of the powder is required to be mixed depending upon the thickness of the product to be applied. Water is to be incrementally added in stages to get a smooth, uniform and workable mix. Allow ample of time for initial mixing.
- Ensure that no powder is left unmixed at the bottom of the vessel. The AAC Block Adhesive is now ready for application.

■ Application Procedure

- Layout the wall in which AAC Block Adhesive is to be used and mark openings like door, windows, any architectural appurtenances etc.
- Put a thin layer of AAC Block Adhesive in the thickness of 3 to 5mm on the clean and leveled surface using proper trowel on which the block work is to be carried out.
- Place the block on the laid AAC Block Adhesive in proper line and level.
- After placing the first block apply the AAC Block Adhesive of same thickness on both the sides of the block continuously keeping a check on the line and level.
- Clean the excess material, if any immediately. Continue the procedure for the entire block work.

■ Coverage

- Under normal conditions the coverage of Dubond's AAC Block Adhesive is approx. 11.15 sq. mtr. with average thickness of 3mm for a bag of 40 kgs. The coverage area however will depend upon the quality of the substrate and thickness of the material used.
- For best results, proper tools for mixing and application is advised which will result in higher coverage, savings in time and manpower.

■ Storage / Shelf life

Dubond's AAC Block Adhesive should be stored in a dry place. Shelf life is 6 months.

■ Packaging

40kg PP laminated bags.

Technical Specifications

Test Method (IS 15477:2004)

Appearance	Free Flowing Powder	Dubond Lab
Color	Grey	Dubond Lab
Water Demand	25 to 30 %	Dubond Lab
Open Time	30 Min.	Dubond Lab
Adjustibility	45 Min.	Dubond Lab
Hard Dry	24 hours	Dubond Lab
Self Curing	Yes (No additional water curing is required)	Dubond Lab

Tensile Adhesive strength

14 days Normal Lab Condition	1.50 K.N.	Dubond Lab
07 Days under Normal Lab Condition		
Followed by 7 Days Immersion in Water	2.27 K.N.	Dubond Lab

Shear Adhesive Strength

24 Hrs Dry Normal Laboratory Condition	14.75 K.N.	Dubond Lab
14 Days Under Normal Lab Condition	24.00 K.N.	Dubond Lab
Adhesion After Water Immersion	21.30 K.N.	Dubond Lab
Adhesion After Heat Ageing	22.90 K.N.	Dubond Lab
Adhesion After Freeze thaw Cycles	21.00 K.N.	Dubond Lab

Precautions

- Though it contains non-toxic materials but still care should be taken to avoid dust inhalation while mixing and handling. In case of contact with eyes or mouth, wash with plenty of clean water.
- Keep it in a safe dry place which is out of reach of children.
- Persons who are allergic to cement should take proper precautions before use.



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