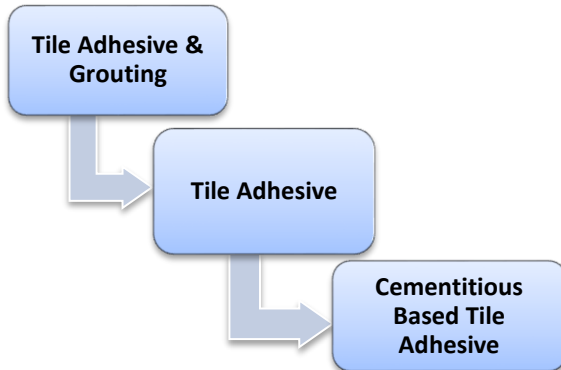


## FAMILY TREE



## PRODUCT DESCRIPTION

Apollo Fix AAC is a ready mixed thin laying cementitious mortar specially designed to fix autoclaved aerated concrete (AAC) blocks internally and externally.

Apollo Fix AAC is composed of blend of cement, well graded aggregate and special polymers that when mixed with water produced a thixotropic mortar with improved open time and weather resistance to be applied at thicknesses up to 5 mm.

## FIELD OF APPLICATION

<b>Area Type</b>	: <input checked="" type="checkbox"/> Dry	<input checked="" type="checkbox"/> Semi-wet (Kitchen and bathrooms)	<input checked="" type="checkbox"/> Submerged (Swimming pools, fountains and potable water tanks)
<b>Area Location</b>	: <input checked="" type="checkbox"/> Internal	<input checked="" type="checkbox"/> External	
<b>Type of Installation</b>	: <input checked="" type="checkbox"/> Horizontal	<input checked="" type="checkbox"/> Vertical	
<b>Tile Types</b>	: <input checked="" type="checkbox"/> For permanent fixing of all types of lightweight blocks.		
<b>Substrates</b>	: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Plaster <input checked="" type="checkbox"/> Plaster Board <input checked="" type="checkbox"/> Metal sheets <input checked="" type="checkbox"/> Wood	<input checked="" type="checkbox"/> Cement Mortar <input checked="" type="checkbox"/> Gypsum Board <input checked="" type="checkbox"/> Cement Plaster <input checked="" type="checkbox"/> Rubber	<input checked="" type="checkbox"/> Screed <input checked="" type="checkbox"/> Cement Board <input checked="" type="checkbox"/> Tile <input checked="" type="checkbox"/> Glass
<b>Thermal behaviour</b>	: Excellent thermal behaviour which make it suitable where under floor heating systems are installed.		
<b>Limitation</b>	: Not suitable for Thick Bed Application Method, tile over tile applications, cases that require a rapid utilization for the surfaces, on metal, rubber, PVC or wood substrates.		

## PROPERTIES

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• General Purpose.</li> <li>• Good resistance to water after dried.</li> <li>• Superior bonding strength.</li> <li>• Ready dry pre-mix.</li> </ul> | <ul style="list-style-type: none"> <li>• Non-sagging.</li> <li>• Excellent workability.</li> <li>• Extended open time.</li> </ul> |
|---|---|

## PREPARATION

<b>Working Conditions</b>	: 2° to 50°C.
<b>Tools / Equipment</b>	: Mechanically powered mixer, mixing container, notched trowel, tile spacer and suction cup.
<b>Substrate</b>	: All used blocks must be checked to be clean and free from oil or any loose materials. It is recommended to wet the used blocks before the application of the adhesive, especially in hot and dry conditions.

This Technical Data Sheet is prepared based on extensive research and practical experience. With the varieties of the materials and conditions of application is out of our control, Apollo assumes no responsibility for the obtained results and / or damages caused by the usage of this product. Apollo Technical Service family is always available at your disposal for any advice and directions that might be required.

<b>Priming</b>	: Highly absorbent cement based substrates require priming prior to the application with NASA Bond 200 at the rate of 5 m <sup>2</sup> /litter. Example of such substrates: gypsum boards, plaster boards, anhydrite screeds, hollow blocks and foam concrete.
<b>Joints</b>	: In general, tiles shall not be placed above expansion or construction joints. NASA Flexseal shall be used to manipulate the joints.

## MIXING

<b>W/P ratio</b>	: (0.25 – 5.4) by weight equivalent to (5.0 - 5.4) litres of clean fresh water for each 25kg bag.
<b>Mixing Speed</b>	: 400 - 600 rpm.
<b>Process</b>	: To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. 5.0 - 5.4 litre of clean water should be added to clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3minutes until a uniform consistency is obtained.
<b>Points of Attention</b>	: Do not add powder to the water without the mixer is started. Always mix sufficient amount that can be applied within the allowed open time of the adhesive after mixing.

## APPLICATION

<b>Application Method</b>	: Thin Bed Method. Large tile format and / or heavy tiles use Bottom-Up Method.
<b>Bed Thickness</b>	: 2 – 5 mm.
<b>Coverage</b>	: Approximately 6.3 m <sup>2</sup> /25 kg bag for 60 x 20 x 15 cm blocks @ 3 mm thickness.
<b>Position</b>	: The described process is suitable for vertical and horizontal installation positions. If more than two rows of heavy and / or large tile format are to be fixed simultaneously, the tiles shall be supported mechanically. It is recommended to use temporary anchor nails in between tile gaps or inclined support stud. The used anchor nails shall be of adequate thickness.
<b>Process</b>	: Using the edge of the trowel, apply a thin layer of the adhesive mixture to the clean substrate. Comb the mixture with the notched side of the trowel to achieve the required bed thickness. Place the tiles to its place. Apply firm equal pressure to the tile after placing to ensure proper and complete contact with the adhesive.
<b>Points of Attention</b>	: Ensure that the tile will be parallel to the substrate while placing and avoid resting only one edge of tile to the substrate. It is recommended to use tile suction cup for handling and placing the tiles especially with heavy tile weights. Secure the tiled area and do not allow any type of traffic unless it is grouted. Grout shall not be applied before 24 hours using NASA Grout. Where water and / or moisture is expected and / or absorbent tiles are used, it is recommended to water proof the back side of the tile using NASA W210.
<b>Cleaning</b>	: All tools / equipment shall be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically. Care shall be taken not to damage the tools / equipment.

## PACKING

<b>Standard Package</b>	: Apollo Fix ACC available in 5 and 25 Kg in plastic bag.
<b>Custom Package</b>	: Special packages can be arranged for large requirements
<b>How to Order</b>	: Specify the Product Name followed with a hyphen and package size

## STORAGE CONDITION

<b>Shelf Life</b>	: 24 months from the date of manufacturing.
<b>Temperature</b>	: 2°C and 50°C.
<b>Points of Attention</b>	: Store in shaded area and properly sealed in its original packing.

## TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
<b>Testing Standard</b>	ISO 1-13007 and BS EN 12004 as an improved cementitious tile adhesive with slip resistance, extended open time and deformability characteristics (C2TES1) and ANSI A118.4 for shear strength requirements.	
<b>Testing Conditions</b>	Tests were carried out in Apollo R&D laboratory @ 25°C	
<b>Component</b>	Single component	
<b>Form</b>	Powder	
<b>Colour</b>	White Grey	
<b>Fresh Wet Density</b>	1.75 ± 0.1 g/cm <sup>3</sup>	
<b>Pot Life</b>	2 hr	
<b>Open Time</b>	ISO 2,4.1-13007	≥ 15 min @3 mm thickness
<b>Compressive Strength</b>	ASTM C109/109M-02	≥ 2.5 MPa
<b>Water Retention</b>	ASTM C1506	≥ 90%
<b>Air Content</b>	ASTM C91	≤ 20%

## ATTENTION

<b>PPE</b>	: It is recommended to use full PPE while working with the product to avoid any possibility of irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.
<b>Hazardous Classification</b>	: Non-Hazardous.
<b>Fire</b>	: Non-flammable.

## APOLLO AT THE GLANCE

Apollo is confident with the technical solutions and high quality end products served to the customers.

Apollo invites you to explore other services and products:

• R&D and manufacturing custom solutions	• Adhesives	• Bonding Agents Systems
• Building Finishing Systems	• Concrete Admixture	• Concrete Repair Systems
• Flooring Systems	• Grouts & Anchoring Systems	• Painting & Putty Systems
• Protective Coatings	• Sealant & Jointing Solutions	• Structural Strengthening Solutions
• Surface Treatment Solutions	• Tile Adhesive & Grouting Solutions	• Waterproofing Systems