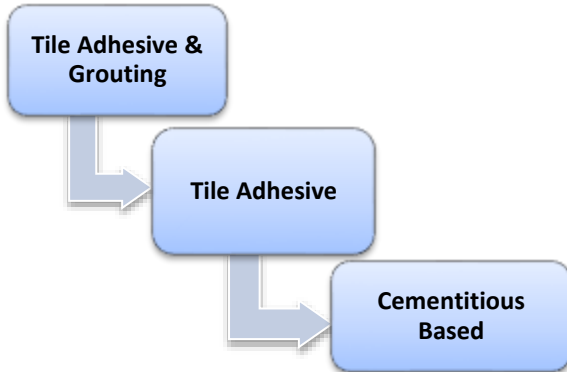


FAMILY TREE



PRODUCT DESCRIPTION

NourFix is a blend of cement, well graded aggregate and special additives that can be easily mixed with water to form a consistent and free of lumps tile adhesive excellent for bonding all types of ceramic tiles and natural stone on floors and walls. NourFix is specially designed to be easier and quicker in mixing and application. The excellent workability properties of NourFix make it ideally suitable to be spread over vertical walls without sagging, and the extended open time feature that characterizes NourFix allows to apply it over larger areas and fix the tiles over these applied areas without any adverse effects on the adhesion strength.

FIELD OF APPLICATION

Area Type	: <input checked="" type="checkbox"/> Dry	<input checked="" type="checkbox"/> Semi-wet (Kitchen and bathrooms)	<input type="checkbox"/> Submerged (Swimming pools, fountains and potable water tanks)
Area Location	: <input checked="" type="checkbox"/> Internal	<input checked="" type="checkbox"/> External	
Type of Installation	: <input checked="" type="checkbox"/> Horizontal	<input checked="" type="checkbox"/> Vertical	

AREA OF LOCATION

- Excellent for wall and floor applications.
- Suitable for exterior and interior applications.
- Suitable for wet areas such as bathrooms and kitchens.
- Suitable for underfloor heating systems.
- On concrete, cement based mortar, screed and plaster.
- On drywall such as gypsum boards and fibre cement boards.

Do not use for:

- Continuously submerged conditions.
- Thick bed applications.
- Cases that require a rapid utilization for the surfaces.
- On metal, rubber, PVC or wood substrates.

PROPERTIES

- Extended open time for easier and quicker application.
- High bond strength to all common substrates.
- Non-sag with good workability.
- Easy to apply, Ready mixed, just requires the addition of water.

PREPARATION

Working Conditions	: 5°C to 50°C.
Tools / Equipment	: Mechanically powered mixer, mixing container, notched trowel, tile spacer and suction cup.
Substrate	: All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material. Concrete and cement based substrates must be sufficiently cured and dimensionally stable. Allow time for shrinkage and structural strain movements. Gypsum boards, plaster Boards, anhydrite screeds, or any highly absorbent cement based substrates such as hollow blocks and foam concrete must be sufficiently dry and free from dust. These substrates must be primed with NASA Bond 200 diluted with water at a ratio of 1:2 by volume (1part NASA Bond 200 to 2 parts water
Priming	: Highly absorbent cement based substrates require priming prior to the application with NASA Bond 200 at the rate of 5 m ² /litter. Example of such substrates: gypsum boards, plaster boards, anhydrite screeds, hollow blocks and foam concrete.
Joints	: In general, tiles shall not be placed above expansion or construction joints. NASA Flexseal shall be used to manipulate the joints.

MIXING

W/P ratio	: (0.25 - 0.27) by weight equivalent to (4.5-5.00) litres of clean fresh water for each 25kg bag.
Mixing Speed	: 400 - 600 rpm.
Process	: Add the clean and fresh water to the mixing container. Start the mixer and add the powder slowly While mixing. Keep mixing the paste for a period not less than 3 minutes after the addition of the Powder until a consistent, homogenous and lumps free mixture is achieved. Stop the mixer and Allow the paste to rest for a period of 2 – 3 minutes. Start the mixer and remix the paste for a Period of 1 minute before the usage.

APPLICATION

Coverage	: Approximately 6 m ² /25 kg bag @ 2 mm thickness..
Position	: The described process is suitable for vertical and horizontal installation positions.
Process	: <ul style="list-style-type: none"> • Apply a thin layer of the adhesive onto the substrate using the flat edge of the trowel. • Comb the adhesive with a suitable notched trowel horizontally to achieve a bed thickness of 2 - 5 mm. • Place the tiles with firm pressure to ensure proper contact with the adhesive. • It is always before to work in a manageable area that can be tiled within the open wet time of the adhesive. • Leave the tiled surfaces for 24 hours before grouting. <p>NOTE:</p> <ul style="list-style-type: none"> • Do not apply at temperature below 2°C. • For heavy traffic areas, it is good practice to back butter the tile back surfaces with the adhesive to ensure 100% coverage. • For large format and heavy tiles where the weight of the tiles cannot be supported by the adhesive, • the installation method shall follow a bottom-up approach, and If more than two rows of tiles are to be fixed simultaneously, the tiles are to be mechanically supported using temporary anchor nails in between tile gaps or by using inclined support stud
Cleaning	: 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

Standard Package	: NourFix available in 25 Kg bag.
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Custom Package : Special packages can be arranged for large requirements.
How to Order : Specify the Product Name followed with a hyphen and package size.

STORAGE CONDITION

Shelf Life : 24 months from the date of manufacturing.
Temperature : 10°C and 30°C.
Points of Attention : Store in shaded area and properly sealed in its original packing.

TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
Testing Standard	ISO 1-13007 and BS EN 12004 as an improved cementitious tile adhesive with slip resistance, extended open time and deformability characteristics (C2TE) and ANSI A118.4 for shear strength requirements. Tensile adhesion strength in compliance with ISO 13007-2,4.4	
Testing Conditions	Tests were carried out in Apollo R&D laboratory @ 25°C	
Component		Single component
Form		Powder
Colour		White & Grey
Pot Life		2 hr @ 25°C
Open Time	ISO 13007-2,4.1	30 minutes
Initial bond		≥ 1 MPa @ 28 days
After heat exposure		≥ 1 MPa
After water immersion		≥ 1 MPa
After freeze/thaw Cycles		≥ 1 MPa
Slip	ISO 13007-2,4.2	≤ 0.5 mm
VOC	ASTM D2369	< 10 g/ltr (complies with LEED)

ATTENTION

PPE : 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.

Hazardous Classification : Non-Hazardous.

Fire : 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:

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| • 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 |