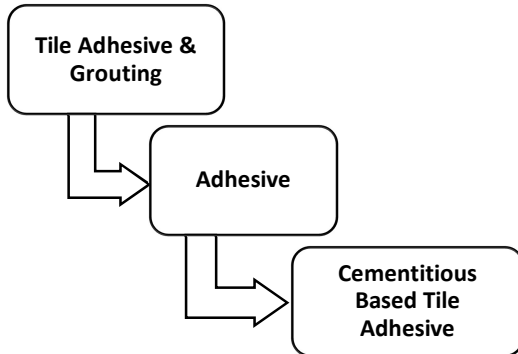


## FAMILY TREE



## PRODUCT DESCRIPTION

Cementitious tile adhesive formulated from cement, redispersable powder polymer, selected filling materials and special additives that provide dry pre-mix powder which only needs the addition of water to produce good bonding characteristics with natural stone, ceramic & porcelain tiles.

It can be used on many common construction substrates; concrete, plaster, cement boards, gypsum boards and cement mortars.

It is excellent for semi-wet areas such as kitchens and bathrooms, internal applications on vertical or horizontal installations.

## FIELD OF APPLICATION

<b>Area Type</b>	: <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)
<b>Area Location</b>	: <input checked="" type="checkbox"/> Internal	<input type="checkbox"/> External	
<b>Type of Installation</b>	: <input checked="" type="checkbox"/> Horizontal	<input checked="" type="checkbox"/> Vertical	
<b>Tile Types</b>	: <input type="checkbox"/> Cementitious <input type="checkbox"/> Terrazzo <input type="checkbox"/> General non-porous tile	<input checked="" type="checkbox"/> Ceramic <input checked="" type="checkbox"/> Stone (Natural)	<input checked="" type="checkbox"/> Porcelain <input type="checkbox"/> Large Format
<b>Substrates</b>	: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Plaster <input checked="" type="checkbox"/> Plaster Board <input type="checkbox"/> Metal sheets <input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Cement Mortar <input checked="" type="checkbox"/> Gypsum Board <input checked="" type="checkbox"/> Cement Plaster <input type="checkbox"/> Rubber	<input checked="" type="checkbox"/> Screed <input checked="" type="checkbox"/> Cement Board <input type="checkbox"/> Tile <input type="checkbox"/> Glass
<b>Thermal behaviour</b>	: Not suitable where under floor heating systems are installed.		
<b>Limitation</b>	: Not suitable for continuously submerged conditions, thick bed application method, tile over tile applications, cases that require a rapid utilization for the surfaces, on metal, rubber, PVC or wood substrates, where underfloor heating is installed or for external usage.		

## PROPERTIES

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Ready dry pre-mix</li> <li>• Economical</li> <li>• Good bonding strength</li> <li>• Water repellent characteristic</li> </ul> | <ul style="list-style-type: none"> <li>• Just add water</li> <li>• non-sagging</li> <li>• Excellent workability</li> </ul> |
|--|--|

## PREPARATION

<b>Working Conditions</b>	: 2° to 35°C
<b>Tools / Equipment</b>	: Mechanically powered mixer, mixing container, notched trowel, tile spacer and suction cup
<b>Substrate</b>	: Clean thoroughly and ensure that it is dry and free from dust, oil, grease, paints or any other loose material that might cause de-bonding with the surface. Attention to substrates where humidity might arise. In such cases, suitable waterproofing is recommended such as NASA Proof W210. Special considerations to all newly poured cement based substrates. Ensure that substrates are sufficiently cured, dimensionally stable, shrinkage and structural strain movements free and stable
<b>Priming</b>	: Highly absorbent cement based substrates require priming prior to the application with NASA

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.

	Bond 200. 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>	: 0.2 - 0.225 by weight equivalent to 4.0 – 4.5 litres of clean fresh water for each 20kg bag.
<b>Mixing Speed</b>	: 400 - 600 rpm
<b>Process</b>	: 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
<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
<b>Bed Thickness</b>	: 2 – 5 mm
<b>Coverage</b>	: Approximately 8 m <sup>2</sup> / 20kg bag @ 2 mm thickness
<b>Position</b>	: The described process is suitable for vertical and horizontal installation positions.
<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. 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>	: 20 Kg plastic Bags
<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>	: 12 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>	BS12004:2008, Type C1 for open time and tensile adhesion strength.	
<b>Testing Conditions</b>	Tests were carried out in Apollo R&D laboratory with W/P = 0.22 @ 25°C	
<b>Component</b>	Single component	

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# TileFix CIR1

Tilefix CIR1 - 20 Kg – BS

*Cementitious ceramic & porcelain tiles adhesive for interior applications with water repellence characteristics and extended open time*

<b>Form</b>		Powder
<b>Colour</b>		White & Grey
<b>Fresh Wet Density</b>		1.45 ± 0.1 g/cm <sup>3</sup>
<b>Pot Life</b>		2 hr @ 25°C
<b>Open Time</b>	EN1346:2007	25 mins
<b>Tensile Adhesion Strength</b>	EN1346:2007	> 0.6 MPa
<b>VOC</b>	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:

- |  |                                      |                                      |
|--|--------------------------------------|--------------------------------------|
| • 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              |

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