FAMILY TREE
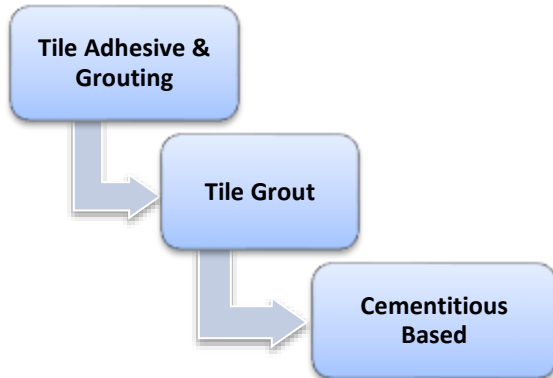
Tile Adhesive & Grouting

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Tile Grout

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Cementitious Based

PRODUCT DESCRIPTION

Cementitious tile grout formulated from cement, sand, special hydrophobic additives and selected redispersable powder polymers that provide dry pre-mix powder that needs only the addition of water to produce superior water repellent tile grout for joints width up to 8 mm.

It has high abrasion resistant which makes it ideally suitable for areas where high traffic load exists such as commercial and residential building.

It is specially designed to be used for wet and submerged areas. Available in wide range of brilliant colours that provide a uniform and aesthetic joint appearance.

.FIELD OF APPLICATION

Area Type	:	☑ Dry	☑ Semi-wet (Kitchen and bathrooms)	☑ Submerged (Swimming pools, fountains and potable water tanks)
Area Location	:	☑ Internal	☑ External	
Type of Installation	:	☑ Horizontal	☑ Vertical	
Tile Types	:	☑ Cementitious	☑ Ceramic	☑ Porcelain
		☑ Terrazzo	☑ Stone	☑ Large Format
		☑ General non-porous tile		
Limitation	:	It is not designed for joint widths exceed 8 mm. Not suitable for grouting tiles where high chemical resistant is required. Not suitable when rapid utilization of the surface is required. Shall not be used to fill expansion joints.		

PROPERTIES

- General Purpose.
- Non-sagging.
- Good resistance to water after dried.
- Excellent workability.
- Water Repellent.
- High abrasion resistant.
- Hygienic.
- Anti-Mould.
- Stain Resistant.
- Non – Shrinkage.
- Uniform colour for aesthetic joint appearance.

PREPARATION

Working Conditions	:	5°C to 45°C.
Tools / Equipment	:	Mechanically powered mixer, mixing container, spatula or rubber float.
Substrate	:	Ensure that the adhesive has completely dried and hardened. Adhesive should be left for 24 hours before applying the grout, unless rapid setting adhesives is used.
Joints	:	All tiles and joints must be clean and free from oil, grease or loose materials. Remove the tile spacers and ensure that the grout joints are uniform and their width does not exceed 8 mm.

MIXING

W/P ratio	:	(0.35 - 0.33) by weight equivalent (1.65 - 1.75) litres of clean fresh water for each 5 kg 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 and 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.
Points of Attention	:	Do not add the powder part to the liquid part without the mixer is started. Always mix the water and powder completely and do not attempt to split into smaller patches. Do not add any liquid / material of any type whatsoever other than the ones specified in this technical data sheet. Adding too much water will weaken the joints, cause surface discoloration, and promote the forma on of cracks, always follow the mentioned mixing ratio.

APPLICATION

Coverage	:	

$$\text{Yield (m}^2\text{/kg)} = \frac{6}{WD\left(0.02 + \dfrac{1}{L} + \dfrac{1}{H}\right)}$$

Where:

L	:	Tile length (cm)
H	:	Tile width (cm)
D	:	Average joint depth (mm)
W	:	Average joint width (mm)

Note: Grout yield subject to ± 15% tolerance

Position	:	The described process is suitable for vertical and horizontal installation positions.
Process	:	Using appropriate and clean spatula or rubber float. Start filling the paste with pressures the joints completely. Immediately, remove the excess grout by moving the spatula or the edge of the rubber float diagonally to the tiles. When the grout starts to set (usually 30 - 20 minutes at normal conditions), use a damped sponge in a circular motion to remove the excess grout and level the joints. It is recommended using tile joint scrapper to maintain uniform joint level. After drying, clean the tiles surface using a dry cloth. It is recommended to remove grout from the tile surfaces before full setting of the grout. Failure to do so may result in difficulty in removing any remains and makes it necessary to use a mechanical means in cleaning, which may scratch the le surfaces.
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	:	Apollo Grout 13 plus Available in 5 Kg.
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	:	2°C and 50°C
Points of Attention	:	Store in shaded area and properly sealed in its original packing

Apollo Grout 13 plus

Apollo Grout 13 plus – 5 Kg – ISO/EN/ASTM
Single component, tile grout for joints up to 8 mm

TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
Testing Standard		ISO 1-13007-3 & BS EN 13888 as an improved cementitious grout with additional characteristics of reduced water absorption and high abrasion resistance (CG2AW) and ANSI A118.6 as a standard cementitious grout.
Testing Conditions		Tests were carried out in Apollo R&D laboratory @ 25°C
Component		Single Component
Form		Powder
Colour		Variety of colours
Fresh Wet Density		1.70 ± 0.1 g/cm³
Working Time		70 – 90 min
Compressive Strength	ISO 130074, 4.1, 1	> 15 MPa @ 28 days
Flexural Strength	ISO 130074, 4.1.3	> 2.5 MPa @ 28 days
Shrinkage	ISO 130074,4.3	< 1.5.0 mm/m
Abrasion Resistance	ISO 130074,4.4	< 1000 mm³
Water Absorption	ISO 130074,4.2	< 3g @ 240 min
VOC	ASTM D2369	< 10 g/litter (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.