



MAGIKOL

Grout Admixture

PRODUCT DESCRIPTION

Magikol Grout Admixture is a Polymer based Grout Admix designed for use with Magikol High Bond cementitious Series Grout, in place of water to provide a dense, colour fast grout joint that inhibits stain causing bacteria, mold and mildew growth with Microband.

Application

Used in place of water, Magikol Grout Admixture improves the performance of Portland cement grouts. Designed for interior and exterior floor & wall joints of all types of ceramic tile, vitreous, semi-vitreous tile, glass mosaic tiles, terrazzo, brick, marble, natural stone and agglomerate stone installation.

Shelf Life

Factory sealed packs of this product are guaranteed to be of first quality for 24 Months from the date of manufacturing.

* if stored off the ground in a dry area.

*High humidity will reduce the shelf life of the product.

Substrates

- Ceramic tile
- Vitrified tile
- Glass Mosaic Tiles
- Granite
- Marble
- Agglomerates (Engineered Stones)
- Precast Terrazzo tiles
- Bricks

Working Properties at 70° F (21° C)

Magikol Grout Admixture mixed with Magikol High Bond cementitious Grout.

Pot Life: 60 Min

Time to Foot Traffic: 24 Hrs

Time to Heavy Traffic: 72 Hrs

Wet Density: 1730 Kg/ m3

Colour:

Milky white

Coverage:

375 ml to 400 ml per Kg of Un-sanded Grouts like Magikol High Bond Cementitious Grout.

Packaging:

5 ltr - (4x5ltr) - Carton

400ml - (12x400ml) - Carton

Features / Benefits

Makes the cement grouts:

- Weather resistant
- Colour fast
- Easy application and clean up.
- Easy maintenance
- Non-cracking & Non-shrink
- Water and shock resistant.
- Improves flexibility and durability of grout

Compliance

ISO 13007 / EN
13888

ANSI A118.6

Member of
Indian Green Building Council



TECHNICAL DATA

Applicable Standards:

MAGIKOL High Bond Cementitious Grout, when mixed with
MAGIKOL Grout Admixture:

ANSI A118.6; ISO 13007 – 4(CG1) / EN 13888

ANSI Data		
Property / Test Method	Requirement	Typical Values
Linear Shrinkage after 27 days: ANSI A118.6: Clause 4.3	Max 0.30%	0.19% - 0.23%
Water Absorption after 27 days: ANSI A118.6: Clause 4.4	Max 18%	10% - 13%
Compressive Strength after 1 day: ANSI A118.6: Clause 4.5	Min 500 psi (3.43 Mpa)	570 – 900 psi (3.91 – 6.18 Mpa)
Compressive Strength after 28 days: ANSI A118.6: Clause 4.5	Min 3000 psi (20.62 Mpa)	3100 – 3200 psi (21.31 – 22.00 Mpa)
Tensile Strength after 28 days: ANSI A118.6: Clause 4.6	Min 250 psi (1.71 Mpa)	350 – 400 psi (2.40 – 2.75 Mpa)
Flexural Strength after 28 days: ANSI A118.6: Clause 4.7	Min 500 psi (3.43 Mpa)	600 – 800 psi (4.12 – 5.50 Mpa)

The grout mortar conforms to ANSI A 118.6

ISO / EN Data		
Property / Test Method	Requirement	Typical Values
Abrasion resistance: ISO 13007 – 4: Clause 4.4; EN 12808 - 2	$\leq 2000 \text{ mm}^3$	1000 – 1500 mm^3
Flexural strength under standard conditions: ISO 13007 – 4: Clause 4.1.3; EN 12808 - 3	$\geq 2.5 \text{ N / mm}^2$	4.0 – 5.5 N / mm^2
Flexural strength under freeze and thaw cycles: ISO 13007 – 4: Clause 4.1.5; EN 12808 - 3	$\geq 2.5 \text{ N / mm}^2$	3.5 – 5.0 N / mm^2
Compressive Strength under standard	$\geq 15 \text{ N / mm}^2$	21 – 22 N / mm^2

conditions: ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4		
Compressive Strength under freeze & thaw cycles: ISO 13007 – 4: Clause 4.1.5; EN 12808 – 4	$\geq 15 \text{ N / mm}^2$	20 – 22 N / mm^2
Shrinkage: ISO 13007 – 4: Clause 4.3 : EN 12808 – 4	$< 3 \text{ mm / m}$	1.9 – 2.3 mm / m
Water Absorption after 30 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 5.0 \text{ g}$	2.0 – 2.5 g
Water Absorption after 240 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 10 \text{ g}$	4.0 – 6.0 g

The grout mortar conforms to ISO 13007 – 4 (CG1) / EN 13888.

Limitations

- Consult with Technical Services for specific exterior grouting recommendations.
- Protect from exposure to acids and strong cleaners during service periods. Acidic cleaners can neutralize the cement based grouts which leads to change of colour, cracking and powdering
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes.

MAINTENANCE

MAGIKOL Cementitious Grouts require routine cleaning with neutral pH soap and water. All other MAGIKOL require no maintenance but proper installation as per instruction. Performance and durability may depend on properly maintaining of Installed area.

INSTALLATION

Surface Preparation

Before grouting, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary.

Mixing

Stir or shake MAGIKOL Grout Admixture thoroughly before use.

Add MAGIKOL powder to proper amount of LATICRETE® 1776 Grout Admix Plus and mix by hand or with a slow speed mixer (<300 RPM) to a smooth, stiff consistency.

Dampen tile surface with water. Spread with a sharp, firm rubber grout float. Work the grout into the joints until completely filled. Use diagonal strokes to pack the joints. Insure that joint is filled and grout is not just sitting on top (i.e. "bridging the joint").

Note: For fuller flush joints sprinkle a thin layer of dry grout powder over surface immediately after grouting. When grout darkens over joint, buff with burlap, carpet remnant or cotton rag to pack joint and clean face of tile.

Cleaning

Grout Primary Cleaning - Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material.

Grout Secondary Cleaning - Remove remaining grout with a damp sponge (not wet) or a damp towel. Work diagonally to the joints. Allow to dry. When the grout joints are firm polish the surface with a coarse nylon pad or coarse cloth and minimal water.

Important site Checks: Notes to the specifiers:

- It is recommended to check the colour of the grout, if it is meeting the desired colour of the client
- It is recommended to do a small area with actual tile/stone at site and check for any colour ingress into the tile/stone. Many tiles / stones have high absorption which may lead to wet patches / discoloration / colour marks.
- Plan to provide proper movement joints, peripheral joints as per TCA, EJ 171 detail to accommodate movements in tile/stone and use flexible grout / sealant to fill these movement joints.

Note: Use caution when polishing soft glazed tiles or polished stone.

* Contact MYK LATICRETE technical services for large format tile or stone installations on exterior surfaces.

WARRANTY

MYK LATICRETE India Pvt Ltd warrants that LATICRETE 1776 Grout admix plus is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of two (2) years from manufacturing of the product subject to the terms and conditions stated in LATICRETE® Product Warranty.

Customer Care

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