



HIND GROUT ADMIX PLUS 747

PRODUCT DATA SHEET

GROUT ADMIXTURE FOR TILE GROUT

DESCRIPTION

Hind Grout Admix 747 is a polymer based grout admixture formulated which can be used with **Hind Tile Grout** in place of water resulting to provide a dense, colour fast grout joint that resists stain causing bacteria and mold. It complies with **IGBC (Indian Green Building Council) norms**.

USES

Hind Grout Admix 747 is used in the following substrates

- Bricks.
- Granite.
- Ceramic Tile
- Vitrified Tile
- Glass mosaic Tiles
- Marble
- Precast Terrazzo Tiles & Engineered Stones, (Agglomerates)

ADVANTAGES

Hind Grout Admix 747 makes cement grouts

- Resistant to weather.
- Easy Application.
- Clean up becomes easy.
- Easy maintenance.
- Enhances flexibility and durability of the grout.
- Possess non-cracking and non-shrink property.
- Water proof and shock resistant.

APPLICATION

Hind Grout Admix 747 is used in place of water. It improves the performance of Portland cement based grouts. It is recommended for interior and exterior floor and walls joints for all types of ceramic, vitreous, semi-vitreous glass mosaic tiles, terrazzo, marble, brick, natural stone and agglomerate stone installation.

Confirming Standards:

Hind Tile Grout un-sanded grout (IGBC Certified Green Product) when mixed with **Hind Grout Admix 747** conforms to **ANSI A 118.6, ISO 13007-4(CG1)/EN 13888.**

ANSI DATA

Property/Test Method	Requirement	Typical Values
Water absorption after 27 days (ANSI A118.6: C1 4.4)	Max 30%	0.19 – 0.24%
Linear Shrinkage after 27 days (ANSI A118.6: C1 4.3)	Max 18%	10%- 13%
Compressive Strength after 1 day (ANSI A118.6: C1 4.5)	Min 500 psi (3.43 Mpa)	Ranges between 570-900 psi (3.91-6.18 Mpa)
Compressive Strength after 28 days (ANSI A118.6: C1 4.5)	Min 3000 psi (20.62 Mpa)	Ranges between 3100 -3200 psi (21.31 – 22.00 Mpa)
Tensile Strength after 28 days (ANSI A118.6: C1 4.6)	Min 250 psi (1.71 Mpa)	Ranges between 350 -400 psi (2.40 – 2.75 Mpa)
Flexural Strength after 28 days (ANSI A118.6: C1 4.7)	Min 500 psi (3.43 Mpa)	Ranges between 600 - 800 psi (4.12 -5.50 Mpa)

The grout mortar conforms to ANSI 118.6

ISO/EN DATA

Property/Test Method	Requirement	Typical Values
Abrasion Resistance: ISO 13007-4 Cl 4.4 , EN 12808-2	$\leq 2000\text{mm}^3$	1000 – 1500 mm ³
Flexural Strength under standard conditions: ISO 13007-4 Cl 4.1.3, EN 12808-3	$\geq 2.5 \text{ N/mm}^2$	4.0 - 5.5 N/mm ²
Flexural Strength under freeze thaw cycles: ISO 13007-4 Cl 4.1.5, EN 12808-3	$\geq 2.5 \text{ N/mm}^2$	3.5 - 5.0 N/mm ²
Compressive Strength under Standard conditions: ISO 13007-4 Cl 4.1.4 , EN 12808-4	$\geq 15 \text{ N/mm}^2$	21-22 N/mm ²
Compressive Strength under Freeze Thaw cycles : ISO 13007-4 Cl 4.1.5 , EN 12808-4	$\geq 15 \text{ N/mm}^2$	20-22 N/mm ²
Shrinkage: ISO 13007-4 Cl 4.3, EN 12808-4	$< 3 \text{ mm/m}$	1.9-2.3 mm/m
Water Absorption after 30 minutes: ISO 13007-4 Cl 4.2, EN 12808-5	$\leq 5.0 \text{ g}$	2.0 – 2.5 g
Water Absorption after 240 minutes: ISO 13007-4 Cl 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

PROPERTIES

Hind Tile Grout un-sanded grout (IGBC Certified Green Product) when mixed with **Hind Grout Admix 747** at 21^o C

Form	Milky white Liquid
Wet Density	1725 Kg/ m ³
Pot Life	1 hour
Time for Foot Traffic	24 hours
Time for Heavy Traffic	72 hours
Coverage	380-410 gms per Kg of UN- sanded grout like Hind Tile Grout. 180- 210 gms per Kg of Sanded Grout like Hind Grout GP1, Hind grout GP2 & Hind patch R.

INSTALLATION

Surface Preparation

Before grouting of the joint spacers used for maintaining groove joints are to be removed, the tile joints is to be cleaned properly to remove dust and dirt by using wet sponge/cloth. There should not be standing water in the joints to be grouted The temperature of the substrate to be maintained within 5^o C to 32^o C. If necessary grout release or sealer may be applied.

Mixing

Hind Grout Admix 747 has to be stirred properly before using.

Hind Tile Grout un-sanded grout (IGBC Certified Green Product) or sanded grout such as **Hind Grout GP1, Hind grout GP2 & Hind patch R**, is added into required quantity of **Hind Grout Admix 747** and mixed properly by hand or slow speed mixer (300 RPM) to obtain a smooth and non-sagging consistency grout mix.

Before applying the grout the tile surface to be dampen with water. The grout is now spread over with a sharp, firm rubber float. The grout is filled into the joints completely. The grout is to be packed into the joints with diagonal strokes and to be ensured that the joint is completely packed and not sitting on top of the joint.

Note: To ensure for fuller flush joints, a small quantity of dry powder is sprinkled over the grouted joint immediately and allowed some time so that the colour of the dry grout darkens out over the joint and then buffed with burlap, carpet remnant or cotton waste to pack the joint and clean the surface of the tile.

Cleaning

Primary Cleaning of Grout: The excess grout on the tile surface is to be cleaned with the edge of the grout float Holding it at 90^o and finally wiping it by pulling it at 45^o angle diagonally across the joints to avoid pulling of the material from the joint.

Secondary Cleaning of Grout: The grout which remains after application is removed with a dampen sponge/towel (not wet) diagonally to the joints. Now the joint is allowed to dry up totally so that it firmly get adhered. Finally the tile surface is polished with a nylon pad or rough cloth with minimum amount of water.

SHELF LIFE

The shelf life of factory packed container of this product is 24 months* provided it is stored in shelf above the ground in a cool and dry covered space away from direct sunlight at a temperature ranging between 10^o C to 25^o C.

*If the product is subjected to high humidity the shelf life will get reduced of the packed material.

PACKING

500gm,1Kg,5Kg,10Kg & 20 Kg in Plastic Bucket.

HANDLING PRECAUTION

Hind Grout Admix 747 is non-toxic, non-inflammable and ingestion is to avoided. If contact with eyes occur, immediately wash with water and seek medical advice.

Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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