



## Premium Floor & Wall Thin Set Adhesive 290 & 252

### PRODUCT DESCRIPTION

Magikol Premium thin set adhesive is a multi- purpose, polymer modified thin set powder offering vast utility including applications on interior floor & wall as well as limited exterior floor & wall installations. It is a cementitious thin set powder to be mixed only with water to install various types of tiles & stone on variety of substrates using thin set method of installation.

### Application

Designed especially for interior floor and wall as well as exterior floor and wall installations of all types of ceramic tile, vitreous, semi-vitreous tile, porcelain, glass mosaic tiles, precast terrazzo, engineered stone and natural stones over concrete and a variety of substrates. Good underwater shear bond allows this product to be used for wet areas like swimming pools, sauna and washrooms

Contact MAGIKOL technical services for exterior area applications

### Advantages

- Single component, just add water
- High strength, polymer modified
- Economical & Easy to use
- Bonds to various substrates
- Exceeds ANSI A118.4 shear bond strength requirements
- Complies to EN with a C2 E T classification
- Water and shock resistant.

### Suitable Substrates

- |                        |                    |
|------------------------|--------------------|
| • Concrete             | • Concrete Masonry |
| • Cement Mortar Beds   | • Cement Plaster   |
| • Tile and Stone       | • Brick Masonry    |
| • Cement Backer Board* | • Cement Terrazzo  |

*\*Consult the backer board manufacturer's data sheet for the specific recommendations.*

**Packaging** – 20kg bag.

### Colour:

Grey (290) & White (252)

### Coverage

Approx 30-35 sft per 20kg bag with 1/4" x 1/4"

(6mm x 6mm) square notched trowel for a bed of 3mm.

*Coverage will vary depending on trowel notch size, type and size of tile and substrate*

### Shelf Life

Factory sealed bags of this product are guaranteed to be of first quality for one (6) months if stored off the ground in a dry area.

### Limitations

- Not for use directly over particle board, luan, Masonite or hardwood floors.
- Not for use over VAT, VCT cutback, vinyl and plastic laminates.
- Use white mortar for white or light colored marble/stone.
- Surfaces must be structurally sound, stable and rigid enough to support tile/stone, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L = span length.

### Cautions

- During cold weather, protect finished work from traffic until fully cured.
- For installation of moisture sensitive stones and engineered stones, please contact supplier / manufacturer of stones for specific installation guidelines.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

## TECHNICAL DATA

### Applicable Standard

ANSI A118.4-1999; EN 12004 & ISO 13007

### Performance Properties

Complies to EN & ISO standards: C2TE

Working Properties at 70°F (21°C)

Test	Test Method	Results
Shear Bond, Porcelain Tile, 28 day cure	ANSI A118.4-1999; F- 5.2.4	>300 psi (2.0 MPa)
Shear Bond, Porcelain Tile, Water Immersion	ANSI A118.4-1999; F- 5.2.3	>190 psi (1.3 MPa)
Compressive Strength	ANSI A118.4-1999; F- 6.1	>2750 psi (18.9 MPa)

Open Time	Approx 20 Minutes
Pot Life	Approx 120 Minutes
Time to Heavy Traffic	16 - 24 hours

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

## INSTALLATION

### Surface Preparation

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds.

Rough or uneven concrete surfaces should be made smooth to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28\* days old before application. Expansion joints shall be provided through the tile work from all

construction or expansion joints in the substrate. Do not cover expansion joints with mortar. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;

### Mixing

Place clean, potable water into a clean pail. Add Magikol Premium 290 or 252 (As required) powder into the pail. Use approximately 5–6 L of water for 20kg of powder.

Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow adhesive to slake for 5-10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

### Application

#### a) Installation of Tile/Stone:

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to insure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large tiles (>12"x12") to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

#### b) Installation of Glass Mosaic tiles:

The Magikol Premium 252 adhesive shall be applied to the surface to be tiled with a notched trowel using a scraping motion to work the adhesive into good contact with the surface to be covered. Notch trowel with notches approximately 4mm is recommended to get a bed thickness of 1.5-2mm. V-notch of 3mm also can be used to get bed thickness of 1.5mm. Apply only so much that can be covered with tile within 10- 15 min or while the adhesive surface is still tacky. The Glass Mosaic tiles shall then be set in place and beaten gently with mallet or grouting float to insure 100% full bedding. Tiles shall be aligned to achieve uniform joints and then allowed to set until firm.

The face of the sheets of front mounted glass mosaic tiles shall then be dampened and the face mount paper can be removed.

Excess adhesive must be cleaned from the surface of the tile with a wet cloth or sponge while the adhesive is fresh and has not hardened.

**Grouting:**

Grout installation shall be done after a minimum of 24 hours curing time at 70°F (21°C). For maximum stain resistance of Internal or External applications, Use Magikol High Bond Epoxy Grout.

**Cold Weather Note:**

The setting of Portland cement adhesives and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. Do not set tile when surface temperature is below freezing or when substrate is frozen.

**Hot Weather Note:** The evaporation of moisture in Portland cement adhesives and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread adhesive and finished work when installing in temperatures over 95°F (35°C).

**Cleaning:**

*Clean tools and tile work with wet towel or wet sponge while adhesive is fresh.*

**AVAILABILITY AND COST****Availability**

For distributor or area dealer information:

Telephone: +91-022-49704245

e-mail: [info@magikol.co.in](mailto:info@magikol.co.in)

**Cost**

Contact a Magikol Distributor in your area

**Magikol Industries LLP.**

B 28, Pravasi Industrial Estate, Off Array Road,

Goregaon East, Mumbai 400063

Telephone: +91 022 49704245

e-mail: [info@magikol.co.in](mailto:info@magikol.co.in)

Website: [www.magikol.co.in](http://www.magikol.co.in)

