



Bronzestar Floor Thin Set Adhesive 310

PRODUCT DESCRIPTION

Magikol Bronzestar 310 Floor Thin Set adhesive is a bagged cementitious powder to be mixed with water for installing ceramic tile and natural stone using the thin-set method of installation.

Application

Can be used for interior & exterior applications on floors over masonry, concrete, brick wall, mortar beds and cement plaster

Advantages

- Economic – Cost effective
- Easy to use – Plastic Consistency
- Consistent quality, ready to use
- Proven performance

Suitable Substrates

- Cement Mortar Beds
- Ceramic Tile
- Cement Plaster
- Brick Masonry
- Cement Terrazzo

Packaging - 20 kg bag

Colour: Grey

Coverage

Approx 30 - 35 sft per 20 kg bag when trowelled with 1/4" x 1/4" (6mm x 6 mm) square notch trowel

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

Cautions

- 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.
- Protect finished work from traffic or damage by other trades for an extended period of time during cold weather conditions. At room temperature conditions 70°F (20°C), protect overnight.
- Keep out of reach of children.

TECHNICAL DATA

Applicable Standard

ANSI A 118.1 – 1999; EN 12004 & ISO 13007

Performance Properties

Magikol Bronzestar 310 Floor thin set adhesive mixed with Water

Complies to EN: C1T

Test	Test Method	Results
Shear Bond Porcelain Tile 28 day cure	ANSI A 118.1- 1999; F-5.2	270 psi (1.1 MPa)
Shear Bond Porcelain Tile Water immersion	ANSI A118.1- 1999; C-5.2.3	150 psi (1.0 MPa)

Compressive Strength	ANSI A118.4- 1999; F-1 (modified)	1500 psi (10.3 MPa)
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Test	Test Methods	Specification	Result
Physical Appearance	Visual	Grey Cementitious Powder	Grey Cementitious Powder
Bulk Density	Internal	1.50 - 1.90 gm/ml	1.85 gm/ml
Flow Point	Internal	180 – 220 mm	190 mm
Open Time	IS-15477 - 2004	>15 minutes.	15 minutes
Pot Life	Internal	>30 minutes	150 minutes
Spread Ability	Internal	Spread Easily with Good Notchability	Spread Easily with Good Notchability
Adjust Ability	IS 15477 : 2004	05 - 15 minutes	10 minutes
Shear Adhesion	IS 15477:2004 Dry Condition After 14 days	>6.00KN	6.5 KN

REMARK ALL APPLICATION TESTS ARE DONE FOR THIN BED FIXING (PROCESS OF TILE FIXING INTO A BED OF AN ADHESIVE NOT EXCEEDING 4 MM IN THICKNESS)

Working Properties at 70° F (21° C)

Magikol Bronzestar 310 Floor thin set adhesive when mixed with water.

Time to Heavy Traffic	16-24 hours
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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. 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 adhesive, tile or stone.

Mixing

Place clean, potable water & Add Magikol Bronzestar 310 powder to the liquid. Use approximately 6L of water for 20 kg 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:

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. Back butter large tiles 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.

Grouting

Grout installation after a minimum of 24 hours curing time at 70°F (21°C).

Cold Weather Note: The setting of Portland cement adhesives are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting, use Magikol Premium 252 or Magikol Premium 290.

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 water while adhesive is fresh.

AVAILABILITY AND COST

Availability

For distributor or area dealer information:

Telephone: +91-022-49704245

e-mail: info@magikol.co.in

Cost

Contact a Magikol Dealer/ 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

Website: www.magikol.co.in

