

Technical Datasheet

ADHCRETE G1 SUPERIOR GRADE FLOOR AND WALL TILE ADHESIVE



PRODUCT DESCRIPTION

ADHCRETE G1 is excellent performance polymer modified thin set adhesive with non sag property and high mechanical property. This is highly preferable for fixing large format tiles and natural stone for floor and wall application. You can mix with ADHCRETE SF latex admix for improved flexibility and high bond strength of tile or stone on special grade plywood. Polymer modified to provide a strong bond onto tiles with low porosity.

APPLICATION

Designed for floor and wall interior and exterior application

Mix with ADHmix SF latex admix for higher bonding strength and flexibility

Advantages

1. Outstanding Quality, Easy to fix
2. Longer adjustment time, Very strong bond strength
3. Use on floor and wall in interior and exterior

4. Long working time for difficult layout,
5. Low shrinking and superior performance
6. Non-slip and water resistance
7. Property can be enhanced with ADHCRETE SF LATEX ADMIX
8. Polymer modified to provide a strong bond onto tiles with low porosity
9. Recommended for both interior and exterior dado application

Suitable substrates

1. Cement Mortar bed
2. Cement Plaster
3. Cement Floor
4. Cement Terrazzo

Pack Size Availability

20 kg and 30 kg

Coverage

TROWEL SIZE	APPROX COVERAGE
1/4"×1/4"×1/4" (6×6×6 mm) Square notch	50-60 Sq.ft.
1/4"×3/8"×1/4" (6×9.5×6 mm) Square notch	30-40 Sq.ft.
1/2"×1/2"×1/2" (13×13×13 mm) Square notch	20-24 Sq.ft.

50 to 60 sqft for 20 kg using 6*6*6*mm square notch-for ceramic tile

30 to 40 sqft for 20 kg using 6*9.5*6mm square notch- for vitrified tile

20 to 24 sqft for 20 kg using 13*13*13 square notch- for stones and other larger format tile

Caution

- Store in cool and dry place
- High humidity and moisture will affect product property
- 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 and Application Properties*at 73⁰ F(23⁰C) and 50 % relative humidity

<p>Shelf Life – 1 year(if it is stored in cool, dry place in original pack Water demand* – 4.5 to 5 litres for 20 kg powder Open Time-Approx*20 min Adjustment time*- Approx*20 min Pot Life*- Approx*4 hours Shear bond strength(28 days)- Minimum 1.75 N/mm² Tensile Adhesion strength (28 days)- Minimum 1.75 N/mm² Compressive Strength(28 days)-Minimum 2900 PSI/20.68N/mm² Time for light foot traffic-6 hours Time for normal foot traffic-24 hours Time for heavy foot traffic-72 hours Time before grouting-24 hours</p>
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* Specifications subject to change without prior notification and may not reflect immediately on TDS. Values shown in the table depends on laboratory condition and test procedure used .Actual field performance may vary on site condition and method of installation used. Company is not liable if failed to produce mentioned result in the site.

Installation

SURFACE PREPARATION

Proper surface preparation is essential for the correct installation of any floor covering. Surface must be structurally sound, smooth, and dry. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dust grease, loose material and any other contamination, which may interface with good bond. Surface temperature should be maintained between 10⁰C to 38⁰C for good adhesion. Concrete bricks/block/wall to dry out by exposure to air for at least 28 days.

MIXING

The standard mixing ratio is 4.5 to 5 l for 20 kg. Put clean water or recommended latex admixture in the mixing container first, then add ADHCRETE G1 thin set mortar. For best result, mix with mixing paddle and 1/2” heavy –duty drill. To mix by hand, use a margin trowel and mix vigorously mix with hand or slow speed mixer until it’s obtain a homogeneous lump free paste. Let the properly mixed adhesive to slake for 4 to 5 minutes. Remix again for 2 minutes and apply with the recommended notched trowel. Properly

consistence mixed material will settle in the substrates in the form of strips (ridges) without slump when it is applied on substrates.

Application procedure

Use properly seized notched on trowel to ensure 100% coverage under a tile. Wet the substrate floor or wall slightly before applying the adhesive mixture.

Apply thin bond coat of the mortar to the substrate with flat edge of the trowel approximately 3mm thickness. Comb the mixture with the notched edge of the trowel working in one direction at 45⁰ angle.

If possible, spread in approximately one square meter at a time. Only apply as much adhesive mixture as can be covered with tiles within a open time. Check open time by touching the adhesive bed with your fingertip because open time will be vary depends on temperature and humidity.

Position tiles in the adhesive bed and press the tile firmly in a perpendicular motion across ridged moving back and forth because it is allowing maximum coverage. Back buttering advisable for some tile. Adjust tile promptly and beat in with a beating block and (wooden hammer) rubber mallet.

Periodically pull up tile & check back to ensure proper adhesive converges. If material has dry or not sticky recomb with notched trowel. If too dry, remove & replace with fresh material.

Grouting

Allow to cure 24 hours before grouting or light traffic, depends upon temperature & humidity. Adhcrete super fine series or coarse series grout with Adhcrete ADHmix TG is recommended. For high stain resistant use ADHCRETE 3000 series epoxy grout.

Cleaning equipment

While mortar is fresh clean the tile and tools with water.

Maintenance

Properly installed material not required specific maintenance.

Warranty

ADHCRETE CONSTRUCTION TECHNOLOGY INDIA PVT LTD warrants to the original purchaser of this product shall be free from defects and will not breakdown under normal usage for a period of one year from the date of manufacturing. Our sole liability under this warranty shall be limited to the replacement of purchased product if proved defect under normal handling as stated in TDS. This warranty will not extend to any other company product or items which were handled along with our product. This warranty or any other legal issues or claims subject to kundapura jurisdiction only.

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