

## *Technical Datasheet*

### **ADHCRETE G2 PREMIUM GRADE FLOOR AND WALL TILE ADHESIVE**



#### **PRODUCT DESCRIPTION**

ADHCRET G2 is a PREMIUM grade Portland cement based thin set mortar for installation of small and medium format tile on various substrates. For fixing large format tile, improved performance like additional workability, higher bonding strength, flexibility and fixing large format tile in exterior application add ADHmix SF latex admix.

#### **APPLICATION**

Designed for floor and wall, small and medium format tile for interior and exterior application

Mix with ADHmix SF latex admix for large format tile for exterior application

#### **Advantages**

1. Longer adjustment time, High bond strength
2. Premium grade, easy to mix
3. Use for both floor and wall

4. Additional workability
5. Low shrinking and superior performance
6. Complies National and International standard

### **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 73<sup>0</sup> F(23<sup>0</sup>C) and 50 % relative humidity**

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\*15 min  
Adjustment time\*- Approx\*15 min  
Pot Life\*- Approx\*3 hours  
Shear bond strength(28 days)- Minimum 1.79N/mm<sup>2</sup>  
Tensile Adhesion strength ( 28 days )- Minimum 1.25 N/mm<sup>2</sup>  
Compressive Strength(28 days)-Minimum 2500 PSI/17.23N/mm<sup>2</sup>  
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

\* 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 between10<sup>0</sup>C to 38<sup>0</sup>C 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 G2 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 obtains 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 45<sup>0</sup> 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 its 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 converge. 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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