

# PG-400 (G/W)



## DESCRIPTION

1.PG-400, is a grey cementitious polymer modified tile adhesive for interior and exterior installation of ceramic, vitrified , natural stones, pavers & bricks.

2.PG-W400, is a white cementitious polymer modified tile adhesive for interior and exterior installation of glass tiles, natural stone, composite marble stone etc.

**Note:** Both PG-400 & W400 are ready to use single component adhesive for interior and exterior application of all types of tiles and natural stones. Only water needs to be added.

## AREA OF APPLICATION

- Suitable for fixing tiles of apparent porosity less than or equal to 3%
- Interior and Exterior bonding of natural stones, mosaic tiles (they are not sensitive to moisture)
- Interior and Exterior bonding of ceramic and vitrified tiles of every type.

## BENEFITS

- Easy application and better work ability
- Excellent adhesion, non-shrinkage.
- Excellent waterproofing characteristics.
- High Strength
- Good open wet time.
- Needs no curing & soaking of tiles.



20kg | 40kg (G)

## TECHNICAL INFORMATION

Adhesive	PG 400	PG W 400
Appearance	Grey cement powder	White cement powder
Bed thickness	6-12mm	3-10mm(including glass mosaic)
Mixing ratio @27±2°C, 65% humidity	5.2 litre to 5.5 litre water per 20kg bag	5.2litre to 5.5litre water per 20kg bag
Pot life @27±2°C, 65% humidity	≥ 2 hours	≥ 2 hours
Open time @27±2°C, 65% humidity	30-35 min	30-35 min
Adjustability @27±2°C, 65% humidity	20 min	20 min
Final setting time @27±2°C, 65% humidity	24 hours	24 hours
Hardening Time	1. Traffic able: 2. Floor Tile: 3. Wall Tiles:	24-36hours approx 24-36hours(grouting time) 6-8*hours(grouting time)

## TECHNICAL STANDARDS AND RESULTS

### IS 15477:2019

Classification	Property	Requirement	PG-400	PG-W-400
Type 2 T Adhesive:based on fixing tiles of apparent porosity less than or equal to 3% (100 mm x 100 mm x 8.0 mm) Shear test	Shear Adhesion Strength: Dry condition 28 days.	1.25N/mm <sup>2</sup>	1.37 N/mm <sup>2</sup>	1.72N/mm <sup>2</sup>
	Shear Adhesion Strength: Heat Aging condition: 28 days	1.0N/mm <sup>2</sup>	1.29 N/mm <sup>2</sup>	1.44N/mm <sup>2</sup>
	Shear Adhesion Strength: Wet Aging condition: 28 days	1.0N/mm <sup>2</sup>	1.06 N/mm <sup>2</sup>	1.35N/mm <sup>2</sup>

### EN 12004:1:2017

Test Method	Property	Requirement	PG-400	PG-W-400
C2 TE Adhesive: based on fixing tiles of apparent porosity less than or equal to 3% (50 mm x 50 mm x 8 mm) Tensile test	Tensile adhesion strenght Min. Dry condition 28 days	1.0N/mm <sup>2</sup>	1.12N/mm <sup>2</sup>	1.47N/mm <sup>2</sup>
	Tensile Adhesion strength: Wet condition	1.0N/mm <sup>2</sup>	1.08N/mm <sup>2</sup>	1.26N/mm <sup>2</sup>

## SURFACE PREPARATION

- ♦ Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- ♦ Movement joints to be filled with suitable joint filler.
- ♦ The surface must be in SSD condition before application.

## APPLICATION INFORMATION

### MIXING

- ♦ Mix 20kg bag of PG-400 & W400 in approx 6litre to 6.5litre of clean water and mix thoroughly until a slump free mortar is achieved.
- ♦ Mix with a trowel or slow speed drills for homogeneous mix.
- ♦ Allow it to slake for 5 minutes.
- ♦ Mix the required quantity, which can be used within the desired pot life, not exceeding 1m<sup>2</sup> area.

### APPLICATION

- ♦ Spread the adhesive uniformly on the surface as required with proper notch trowel to get the required depth of 6-12mm.
- ♦ Place the tile on the adhesive surface and press firmly into position with a slight twisting action, ensure that good contact is maintained to the back of each tile, eliminating the possibility of any air voids.
- ♦ Tiles should be applied within 15 to 20 minutes of adhesive being applied.
- ♦ Keep adequate joints between two tiles using spacers.
- ♦ Clean off surplus adhesive from the tile face and between joints.

### PRECAUTIONS

- ♦ Always add powder to water and never add water to powder.
- ♦ Never add excess water than recommended.
- ♦ Surface should be hard and in sound condition for floor tiling.
- ♦ Do not use in damp Conditions.
- ♦ Not recommended for tiling on paint, wood, metal and gypsum.

### COVERAGE

30-35 sq. ft for 20kg bag at 6mm thickness,  
may vary upon notch trowel size at site condition.

### PACKAGING

20kg | 40kg (G)

### SHELF LIFE & STORAGE

Shelf life is one year from the date of manufacturing  
Store the material in cool and dry place away from moisture.

### TECHNICAL BASE

All technical data stated in this Product Data Sheet are based on laboratory tests.  
Actual measured data may vary due to circumstances beyond our control.

### HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent material safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Manufactured & Marketed By :

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