

TECHNICAL DATA SHEET

POWERFIX

For those who needs strength...



GOLD

Floor & Wall Tile Adhesive

- Polymer modified adhesive
- Interior Application
- Single component, just add water
- Bonds to various substrates
- Exceeds ANSI A118.1T shear bondstrength requirements
- Complies with EN / ISO with a C1T classification
- Exceeds IS 15477: 2019 - type 2T Adhesive standards



www.durgabondchem.in

Available in 20kg.

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DESCRIPTION

Designed especially for dry areas of interior floor and interior wall installations of all types of ceramic tile, semi-vitreous tile, precast terrazzo and small format natural stones over concrete and on a variety of cement based substrates.

Polymer based adhesive for fixing ceramic tiles, vitrified tiles and stones on interior floor, wall and external floors.



PACKAGING

20 kg Bags

COLOUR

Grey & White

COVERAGE

Approx. 55-60 Sft per 20kg pack using 1/4 x 1/4(6mm x 6mm) square notched trowel for a bed of 3mm.

WORKING PROPERTIES AT 70° F (21° C)

Open Time : **20 Mins.**

Adjustment Time : **20 Mins.**

Pot Life : **3-4 Hrs.**

Time to Heavy Traffic : **16 -24 Hrs.**

TYPE	CLASS
C	2T



SUBSTRATES

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Ceramic Tile*
- Brick Masonry
- Cement Terrazzo
- Existing Natural Stone*



TECHNICAL SPECIFICATIONS

ANSI DATA		
PROPERTY : TEST METHOD	REQUIREMENT	TYPICAL VALUES
Open Time (20 Minutes at 28 days) : ANSI A118.1-Clause 5.3	≥75 psi (0.50 Mpa)	100 psi – 120 psi (0.68 – 0.82 Mpa)
Sag: ANSI A118.1- Clause 6.0	≤0.02 Inches (0.50 mm)	0.012 - 0.016 Inches (0.30-0.40 mm)

PORCELAIN MOSAIC TILE SHEAR STRENGTH		
1 Day: ANSI A118.1 -Clause7.2.2	>50psi (0.34Mpa)	100 - 150 psi (0.68 – 1.03 Mpa)
7 Days: ANSI A118.1 -Clause 7.2.3	>150psi (1.03Mpa)	200-250psi (1.37-1.72Mpa)
7 Days Water immersion: ANSI A118.1 -Clause 7.2.4	>100psi (0.69Mpa)	150-200psi (1.03-1.37Mpa)
28 Days: ANSI A118.1 -Clause 7.2.5	>150psi (1.03Mpa)	200-250psi (1.37-1.72Mpa)
12 Weeks: ANSI A118.1 -Clause 7.2.6	>150psi (1.03Mpa)	200-250 psi (1.37 – 1.72 Mpa)

PORCELAIN MOSAIC TILE SHEAR STRENGTH		
PROPERTY : TEST METHOD	REQUIREMENT	TYPICAL VALUES
TENSILE ADHESION		
Dry Condition– Annex A (Clause 5.1)	Minimum 1.00 N/mm ²	1.15-1.25N/mm ²
Wet Condition Annex A (Clause 5.1)	Minimum 1.00 N/mm ²	1.15-1.25N/mm ²
SHEAR ADHESION		
Dry Condition– Annex B (Clause 5.2)	Minimum 1.25 N/mm ²	1.35-1.45N/mm ²
Heat Ageing– Annex B (Clause 5.2)	Minimum 1.00 N/mm ²	1.05-1.15N/mm ²
Wet Condition– Annex B (Clause 5.2)	Minimum 1.00 N/mm ²	1.10-1.20N/mm ²
Slip resistance – Annex E (Clause 5.5)	≤ 0.5mm	0.35-0.45mm

* The Adhesive mortar conforms to ANSI A 118.1T

* The Adhesive mortar conforms to IS 15477: 2019 -Type 2 T Adhesive

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SURFACE PREPARATION

All surfaces should be between 5°C and 42°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds. Check the surface to be true to plumb. All slabs must be plumb and true to within ¼"(6mm) in 10 ft (3m). Rough or uneven concrete surfaces should be made smooth. Screed/Plaster material to provide a wood float 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.

MIXING

Place clean, potable water into a clean mixing bowl. Add powder into the mixing bowl. Use approximately 4L - 6L of water for 20 kg of powder. Mix by mechanical stirrer to a smooth, trowel able consistency. Allow adhesive to slake for 5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Note: Addition of latex admix, partially or completely replacing water would enhance the bond strength, flexibility of the thin set mortar.

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 ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 8 minutes. Back butter large format tiles (> 1ftx1ft) to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to embed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. Use of tile spacers is recommended to provide grout joints between tiles / stones. The joint width shall be as per the recommendation of architect / engineer. Remove the spacers when the adhesive is set firm.

If adhesive is skinned over (not sticky), remove and replace with fresh adhesive. For highly absorbent natural stones which may form a wet patch when adhesive is used. Please refer Technical Data Sheets of product intended for use for specific instructions of use.

GROUTING

Grout installation shall be commenced after a minimum of 24 hours curing time at 28° C. Apply Grouting with POWERFIX Cementitious Tile Grout or Epoxy Grout.

SHELF LIFE

12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

SAFETY PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.

For more details please refer the relevant Material Safety Data Sheet, available on request.

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