

TILE BOND HI-FLEX



Product USP



Excellent workability

High chemical adhesion strength



For facades and exterior cladding

Sustains heat aging



For areas prone to vibrations

Deformable



No vertical slip

Very low VOC
Less than 0.05%



High-performance, highly polymer-modified, slip-resistant, flexible cementitious tile adhesive with extended open time for fixing large format tiles and stones on interior and exterior floors and walls. It is C2TES1 classified according to EN 12004 and Type 4T S1 according to IS 15477:2019.

Product description

This is a ready-made polymer modified adhesive having high performance, cement base (C), improved (2), slip resistance (T), extended open time (E), and deformability (S1). areas prone to vibrations like lift lobby & window jammer. The product can also be used to fix facades, heated floors, swimming pools, and industrial floors.

Application area:

Materials to be fixed: All types of ceramic tiles, vitrified tiles, terracotta, bricks, large format tiles, thin tiles, ceramic and glass mosaics, marble, and natural stones.

Substrates: Cement-based screeds and plasters; concrete surfaces; other cement-based products; waterproofing products; cement-based self-leveling products; Water-retaining bodies, brick/blockworks, insulating panels, existing tiles and stones, drywall like cement, bison, gypsum, fiber boards, and thermal insulation panels.

Area of use: Interior and exterior walls and windows, decorative applications, commercial applications, facades, dry and wet areas like water tanks, big swimming pools, saunas and spas, fountains, terraces, balconies, and vibration-prone areas like window or door frames and lift lobby.

Product attributes

PROPERTIES	SPECIFICATION
Pot Life @ 30°C:	Approx. 75 MIN
Coverage:	50-55 sqft (with 6mm x 6mm notch trowel) 25-27 sqft (with 12mm x 12mm notch trowel)
Adhesive Thickness:	Up to 12 mm
Slip Resistance:	≤ 0.5 mm
Base:	Especially active additives mixed in cement and silica/ quartz sand mortar
Aspect:	Grey Adhesive: Grey Powder White Adhesive: White powder
Bulk Density (gm/cc):	1.25 – 1.4 kg/lt
Mixed Density (w/p=0.24):	1.5 – 1.75 kg/lt
Open time @ 30°C:	≥ 30 min
Adjustment time @ 30°C:	≥ 20 min
Temperature of Substrate, Air & Materials during Application:	From +5°C to +35°C
Curing Time:	Applied product ready for use: Floor grouting - light foot Traffic after 24-36hour, Wall grouting after 24 hours
Ready to use:	Light Traffic: after 48 hours Heavy traffic: after 72 hours

Technical data as per IS 15477:2019

PROPERTIES	SPECIFICATION
Tensile adhesion strength (After 28 Days):	Dry condition: ≥1.5 N/mm ² After water immersion: ≥1.0 N/mm
Shear adhesion strength	Dry condition: ≥1.5N/mm ² Heat ageing condition: ≥1.0 N/mm ² Wet condition: ≥1.0 N/mm ²
Transverse deformation (S1)	≥ 2.5 mm

Technical data as per EN 12004

PROPERTIES	SPECIFICATION
Tensile adhesion strength (After 28 Days):	Dry condition: ≥1.0 N/mm ² After water immersion: ≥1.0 N/mm ² After heat ageing: ≥1.0 N/mm ² After freeze-thaw cycle: ≥1.0 N/mm ²
Extended open time (at 30 minutes)	≥0.5 N/mm ²
Slip resistance	≤ 0.5 mm
Transverse deformation (S1)	≥ 2.5 mm

TILE BOND HI-FLEX



Packs



Supplied in 20 kg & 40 kg bags.



Coverage

50-55 sqft (with 6mm x 6mm notch)
25-27 sqft (with 12mm x 12mm notch)



Working Temperature

From +5°C to +35°C



Pot Life @ 30°C

90 mins



Adhesive Thickness

From 2mm to 12mm

DIRECTION FOR USE



Surface preparation

Prior to application, make sure the substrate is cement laitance-free, clean, and free from dirt, oil, grease, or other contaminants and loose or friable particles that may affect the adhesion strength. All surfaces must be dimensionally stable, level, cured, undamaged, compact, rigid, and dry.

Dampening shall be done with water over dry and dusty surfaces. For more absorbent surfaces, apply a coat of HS Latex Shield 2K, and for wet areas, apply two coats of Wall Shield 2K before two days. The substrate must be perfectly flat, sound, free from parts that are easily removed, non-deformable, and correctly aged or cured. Undulation can be leveled or filled with a layer of HS Tile Bond Anti-Slip in a maximum thickness of 5 mm, applied at least 24 hours before.

Areas of weak or honey-combed base surfaces should be sufficiently flat to permit the specified thickness. During application, there should not be any standing water.



Mixing

HS Tile Bond Anti-Slip is mixed thoroughly with potable water (always pour water into powder and not the reverse) until a lump-free mortar mix is obtained (at least 3 minutes of mixing is necessary).

A 20-kg bag of powder requires approximately 4.5 to 5.5 liters of water. The adhesive is immediately ready for use. Always mix the required quantity, which can be consumed within the pot life. Let the mixture air dry for 5 minutes before use. No further water should be added

Application

- To obtain a 3mm thickness, use a 6mm x 6mm notch trowel. The amount of product should be enough to ensure complete wetting of the tile. Tiling has to be carried out on fresh adhesive.
- applying an optimum pressure to ensure contact with the adhesive with the tile to form a perfect bond.
- Avoid wetting the adhesive already applied with water.
- To lay tiles sized larger than 600mm x 600mm, double spreading (back buttering) technique is always recommended.
- If the substrate is very porous and the temperature is high and/or the relative humidity is low, it is advisable to dampen the surface.
- Do not leave any standing water.

Health & Safety precaution

Wear hand gloves, safety shoes and safety goggles while using and handling the product. In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately. Before use, refer to the Material Safety Data Sheet (MSDS).

Shelf Life

12 months from the date of manufacturing in unopened condition

Storage

Store in cool and dry place, free from direct sunlight and frost. Approx. temp range (+) 5 °C to 40°C. In tropical climate the product must be stored in an air conditioned environment.

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