TILE ADHESIVE

Modified cement based tile adhesive

BERGER HOME SHIELD
SCIENTIFIC WATERPROOFING SOLUTIONS



Product USP

Polymer modified adhesive

Ready to use
Only water to be added

For Internal, External floor

Good Mechanical strength

Extended Open Time

Non-sagging

Low VOC
Less than 0.05%

Reduced slip

Product Description

TILE ADHESIVE is a ready-mixed polymer modified cement based multi-purpose adhesive. It provides outstanding bonding to various ceramic tiles over cementitious surfaces like plaster, concrete, etc. TILE ADHESIVE is non-shrink, self-curing, and has brilliant binder properties. Classified as C1TE according to EN 12004 : 2017 and Type 1T according to IS 15477:2019.

Application Area

- All type of Ceramic tiles, ceramic mosaic and Vitrified Tiles (up to 2 ft by 2 ft).
- Cement-based screeds, Cement-based plasters, Concrete, cement based self-leveling products.
- For internal floors & Walls, domestic applications, commercial application.

Product Attributes

PROPERTIES	SPECIFICATION
Pot Life @ 30°C:	Approx. 90 min
Coverage:	50-55 sqft (with 6mm x 6mm notch trowel) 25-27 sqft (with 12mm x 12mm notch trowel)
Adhesive Thickness:	Up to 10 mm
Slip Resistance:	≤ 0.5 mm
Base:	Especially active additives mixed in cement and silica/ quartz sand mortar
Aspect:	Grey Adhesive: Grey Powder
Bulk Density (gm/cc):	1.35 – 1.75 kg/lt
Mixed Density (w/p=0.23):	1.6 – 1.85 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: 0.5 N/mm^2
Shear adhesion strength	Dry condition: ≥1N/mm^2

TECHNICAL DATA AS PER EN 12004

PROPERTIES	SPECIFICATION
Tensile adhesion strength (After 28 Days):	Dry condition: ≥0.5 N/mm^2 After water immersion: ≥0.5 N/mm^2 After heat ageing: ≥0.5 N/mm^2 After freeze-thaw cycle: ≥0.5 N/mm^2
Slip resistance	≤ 0.5 mm

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Packs



20 Kg | 30 Kg

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 10mm

CONFORMS TO EN 12004 C1TE

CONFORMS TO IS 15477 TYPE 1

Application Method

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.

The substrate must be perfectly flat, sound, free from parts that are easily removed, non-deformable and correctly aged.

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

Mixing



HS Tile Adhesive is mixed thoroughly with clean water (always pour powder into water and not the reverse) until a lump-free, homogenous mix is obtained (at least 3 minutes of mixing is necessary), rest it for 5 minutes as a slaking period and then remix and apply.
A 20-kg bag of powder requires 4 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.
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.
- Check samples to make sure the adhesive has been transferred to the back of the material.
- Exerting an optimum pressure to ensure contact with the adhesive with tile to form a perfect
- Avoid wetting the adhesive already applied with water.
- The double-spreading (back buttering) thin-bed consistency technique of adhesive application is always
- If the substrate is very porous, if the temperature is high and/or the relative humidity is low, it is advisable to dampen the
- Do not leave any standing water.

Health & Safety

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

Version No: BPP1/07/2026. Please note that this data sheet supersedes all previous versions.

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