

STRONG BOND GOLD PLUS

Type-2 T Tile Adhesive · EN 12004 Class C2T

High polymer modified adhesive for fixing tiles and natural stone on interior and exterior floor & shear walls.

IS 15477:2019 TYPE 2 T	EN 12004 / ISO 13007 CLASS C2T	20 KG BAG SINGLE COMPONENT	BED THICKNESS UP TO 15 MM
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FEATURES & BENEFITS	SUBSTRATES
- Single component, just add water - High strength, polymer modified - Good transfer rate – no hollow sound - Resistance against shrinkage cracks - Good impact resistance - Bonds to various substrates - Usable up to a bed thickness of 15 mm - Complies to C2T designation - Meets the requirements of Type 2 T as per IS 15477:2019 - Exceeds high shear bond strength requirements	- Concrete & concrete masonry - Mivan / shear walls - VDF / Tremix concrete - Cement mortar beds - Cement plaster - Ceramic tile, vitrified tile & natural stone - Brick masonry - Cement terrazzo* - Existing natural stone* <i>*Surface to be cleaned and roughened before installation of tiles or stones.</i>

Application — Designed for interior floor and wall installations and external floor installations of all types of ceramic tile, vitrified tile, precast cement terrazzo and natural stones over concrete and a variety of cement-based substrates, especially on low-absorbent substrates like MIVAN / shear walls. Can be used up to a maximum 15 mm bed thickness.

WORKING PROPERTIES — at 70°F (21°C), mixed with water

Open Time	Adjustability Time	Pot Life	Foot Traffic	Heavy Traffic
20–25 minutes	20–25 minutes	4–5 hours	16–24 hours	28 days

1.35+ N/MM ² DRY TENSILE	1.25+ N/MM ² WET TENSILE	15 mm MAX BED THICKNESS	≤0.4 mm VERTICAL SLIP
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IS 15477:2019 — PERFORMANCE DATA

Property / Test Method	Requirement	Typical Value
Tensile Adhesion — Annex A		
Dry Conditions (Clause 5.1)	Min. 1.00 N/mm ²	1.35 - 1.45 N/mm²
Wet Conditions (Clause 5.1)	Min. 1.00 N/mm ²	1.25 - 1.35 N/mm²
Shear Adhesion — Annex B		
Dry Conditions (Clause 5.2)	Min. 1.25 N/mm ²	1.30 - 1.40 N/mm²
Heat Ageing (Clause 5.2)	Min. 1.00 N/mm ²	1.10 - 1.15 N/mm²
Wet Conditions (Clause 5.2)	Min. 1.00 N/mm ²	1.15 - 1.25 N/mm²
Slip Resistance — Annex E		
Slip Resistance (Clause 5.5)	≤ 0.5 mm	0.3 - 0.4 mm

Applicable standards: ISO 13007; IS 15477:2019. Specifications subject to change without notice. Results shown are typical and reflect the test procedures used; actual field performance depends on installation method and site conditions.

ANSI A118.4 — SHEAR STRENGTH DATA

Property / Test Method	Requirement	Typical Value
Glazed Wall Tile Shear Strength		
7 Days (Clause 7.1.2)	> 300 psi (2.07 MPa)	320-345 psi (2.20-2.40 MPa)
7 Days Water Immersion (Clause 7.1.3)	> 200 psi (1.38 MPa)	220-240 psi (1.50-1.70 MPa)
Porcelain Mosaic Tile Shear Strength		
1 Day (Clause 7.2.2)	> 75 psi (0.50 MPa)	95-140 psi (0.68-1.20 MPa)
7 Days (Clause 7.2.3)	> 200 psi (1.38 MPa)	250-275 psi (1.72-1.89 MPa)
7 Days Water Immersion (Clause 7.2.4)	> 150 psi (1.03 MPa)	175-225 psi (1.21-1.55 MPa)
28 Days (Clause 7.2.5)	> 200 psi (1.38 MPa)	250-300 psi (1.72-2.06 MPa)
28 Days Freeze-Thaw Cycling (Clause 7.2.5)	> 175 psi (1.20 MPa)	225-275 psi (1.54-1.89 MPa)
12 Weeks (Clause 7.2.7)	> 200 psi (1.38 MPa)	250-300 psi (1.72-2.06 MPa)
Quarry Tile Shear Strength		
28 Days (Clause 7.3.2)	> 150 psi (1.03 MPa)	200-250 psi (1.37-1.72 MPa)
28 Days Freeze-Thaw Cycling	> 100 psi (0.69 MPa)	150-200 psi (1.03-1.37 MPa)

Applicable standards: ANSI A118.4; EN 12004 & ISO 13007; IS 15477:2019.

COVERAGE — PER 20 KG BAG (MIXED WITH WATER)

Trowel Size	Bed Thickness	Minimum Coverage	Maximum Coverage
6 × 6 mm square notch	3 mm	60 ft ²	65 ft ²
9 × 9 mm square notch	4.5 mm	40 ft ²	42 ft ²
12 × 12 mm square notch	6 mm	30 ft ²	32 ft ²

Coverage will vary depending on trowel notch size, tile type and size, and substrate smoothness and evenness.

MIXING

Place clean, potable water into a clean mixing bowl. Add STRONG BOND-GOLD PLUS adhesive powder into the mixing bowl. Use approximately 13.5 to 15 litres of water for 50 kg of powder. Mix by hand or with a slow-speed mixer to a smooth, trowelable consistency. Allow the adhesive to slake for 5-10 minutes, adjust consistency if necessary, then remix and apply with the proper sized notched trowel. *Note: Addition of STRONG BOND latex admix, partially or completely replacing water, enhances the bond strength and flexibility of the adhesive mortar.*

SURFACE PREPARATION

All surfaces should be between 40°F (4°C) and 104°F (40°C), structurally sound, clean and free of dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds. Check the surface for plumb — all slabs must be plumb and true to within ¼" (6 mm) in 10 ft (3 m). Rough or uneven concrete surfaces should be made smooth with STRONG BOND Screed/Plaster to provide a wood-float (or better) finish. Dry, dusty slabs or masonry should be dampened and excess water swept off; installation may be made on a damp surface. New concrete slabs should be damp-cured and 28 days old before application.* Expansion joints must be carried through the tile work from all construction or expansion joints in the substrate and must not be covered with adhesive — follow ANSI AN-3.8 or TCA Detail EJ171. For installation over cement backer board, follow TCA detail W244.

**No minimum cure time is required for concrete slabs when the thin-set mortar is mixed with latex additive.*

APPLICATION

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work it into the surface. Comb on additional adhesive with the notched side, using the proper sized notched trowel to ensure full bedding of the tile. Spread only as much adhesive as can be covered with tile in 10 minutes. Back-butter large-format tiles (> 12"×12") to provide full bedding and firm support. Place tiles into the wet, sticky adhesive and beat in using a beating block and rubber mallet to embed the tile and adjust level. Check for complete coverage by periodically lifting a tile and inspecting adhesive transfer onto its back. Use STRONG BOND spacers to maintain grout joints between tiles/stones, as per the architect's/engineer's recommendation, and remove them once the adhesive has set firm.

Note to specifier & installer — On external walls and floors, provide joints between tiles/stones and fill them with STRONG BOND cement-based grout. Without spacer joints, surface movement can push tiles/stones away from the substrate, causing debonding. Exterior installations should carry peripheral joints so the tile/stone is not rigidly bound by the surrounding masonry or plaster.

GROUTING

Begin grouting a minimum of 24 hours after tiling, at 70°F (21°C). Use STRONG BOND Sanded or Unsanded Grout. For maximum stain resistance on internal spacer joints, use STRONG BOND Stainfree Grout; for external spacer joints, use STRONG BOND Stellar Grout, which accommodates movement and is UV-stable.

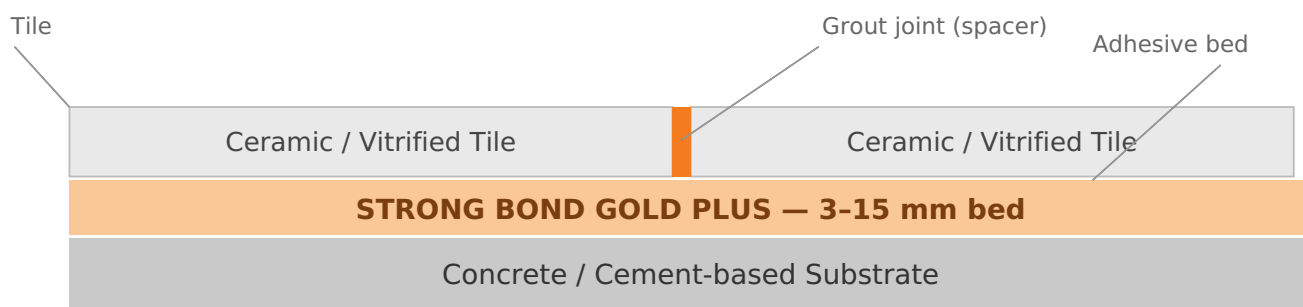
HOT & COLD WEATHER TILING

Refer to the separate STRONG BOND technical document on hot- and cold-weather tiling before working outside the standard 40-104°F (4-40°C) application range.

PACKAGING & SHELF LIFE

Packaging	Shelf Life	Storage
20 kg bag	1 year from date of manufacture, factory-sealed	Store off the ground in a dry area. High humidity will reduce the shelf life of bagged product.

TYPICAL INSTALLATION BUILD-UP



Schematic representation only, not to scale. Follow the surface preparation and application steps above for actual installation.

DISCLAIMER

The information in this data sheet is based on our present knowledge and experience and is offered in good faith. Specifications are subject to change without notice. Results shown are typical values from internal test procedures; actual field performance depends on installation methods and site conditions, and should be verified by the user for the intended application.