



ARMSTRONG CHEMICALS PVT. LTD., Bengaluru
An ISO 9001 Certified Company



High Performance Two Component Resin Based Hybrid Adhesive is a Multipurpose Thin-set Designed for
Installing Large Format Tiles & Stones on substrates like Glass Tiles & Dry Walls

Complies with ANSI A 118.4; ANSI A 1178.15; EN 12004 : D2TES2; IS 15477 : Type 4TS2

DESCRIPTION OF THE PRODUCT

High performance, Two component, Resin based Hybrid Adhesive is a multipurpose, thin-set adhesive designed for installing large Format Tiles & Stones on substrates like Glass Tiles & Dry walls & on interior and Exterior Floor & walls.

RECOMMENDED FOR :

- Fixing large format tiles, precast terrazzo, natural stones on substrates like drywalls, Gypsum boards, Cement backer boards, marine plywood, brick masonry, Concrete masonry, HDF and MDF boards, Plywood, MIVAN concrete, Calcium silicate boards, Green boards
- Fixing vitreous mosaic

AREAS OF APPLICATION :

- Floors and walls, Internal & External areas, Cement plasters, Shear walls etc.

ADVANTAGES :

- Economical and Easy to use.
- Highly flexible adhesive -sustains heavy vibrations.
- Excellent workability and trowel ability.
- Chemical resistance to solvents, alkalis & oils.
- Can be used for Tile-on-Tile applications.
- Two component : Easy to mix and use
- Low VOC.
- Foot traffic will arrived in 1 Day.
- Moisture Resistance.
- Water, freezing, thermal shock resistant..
- Excellent bonding to plasters, MIVAN concrete, Dry walls, Cement boards etc

TECHNICAL PROPERTIES :

Component Appearance	Part A - Resin / Part B - Powder
Mixing Ratio (Part -A : Part -B)	Part A - 1 Kg. Resin / Part B - 3 Kgs. Powder
Mixed Density	1.65 + / - 0.1 Kg. / Kg.
Open time	30 Minutes
Adjustability	30 Minutes
Pot life	30 minutes
Application temperature (Substrates and materials)	10°C to 40°C
Resistance to temperature	-40°C to +100°C
Setting /trafficable/Grouting	24 hours

Meets ANSI Standards : ISO 13007, EN 12004, 15477: 2019

TESTING PROPERTIES	REQUIREMENT	TEST RESULT
Slip Resistance	≤ 0.5 mm	≤ 0.3 mm to 0.5 mm
Tensile adhesion (at 60 mins)	≥ 1.0 N / mm ²	≥ 1.5 N / mm ²
Shear adhesion strength after after thermal shock	≥ 2.0 N / mm ²	≥ 5.0 N / mm ²
Shear Adhesion strength after Water immersion	≥ 2.0 N / mm ²	≥ 5.0 N / mm ²
Initial shear adhesion strength	≥ 2.0 N / mm ²	≥ 5.0 N / mm ²

IS DATA MEETS THE STANDARDS :

Tensile Adhesion at Dry condition, after 28 days	≥ 2.0 N / mm ²	≥ 2.5 N / mm ²
Tensile adhesion at Wet condition	-	≥ 1.5 N / mm ²
Shear Adhesion at Dry condition	≥ 6.0 N / mm ²	≥ 7.0 N / mm ²
Shear Adhesion at Wet condition	-	≥ 6.0 N / mm ²
Shear adhesion at Heat condition	≥ 3 N / mm ²	≥ 6.0 N / mm ²
Deformability	≥ 5 mm	≥ 30 mm

SURFACE PREPARATION :

Surface should be structurally sound, clean and free of all dirt, oil, grease, laitance, Concrete sealers or curing compounds. Check the surface to be true to plumb. Rough or uneven concrete surface should be made smooth with Tilex 512 Screed/Plaster material to provide a better finish. Concrete slabs or masonry should be dampened, and excess water swept off. Slab must be Cured and 28* days old before application which will reduce the shrinkage from tile fixing surface.

Expansion joint should be provided & filled with Suitable sealants.

MIXING :

Mixing ratio by weight : Part -A (5 Kgs. RESIN) : Part - B (15 Kgs. POWDER) = 1 : 3 Ratio

- Part -A and Part -B as per the measurement given above in clean dry container.
- Mix the two components thoroughly by hand or using a low-speed mixer until uniform mix is achieved. Apply adhesive to the substrate with the recommended notch trowel, then set tiles firmly into place.

APPLICATION :

While using TILEX 521 -Two component Resin Based Hybrid adhesive to install tiles/stone on dry wall boards like plywood, Cement Backer Board, Calcium silicate Board, Gypsum wall Board, it is important to check with the manufacturer of the Board, for the load bearing capacity and internal strength of the board to sustain the loading of tile and stones. It is recommended to commence work only on such confirmation and seek from them, the methodology of fixing of board to keep them stable without moving and warping bending.

While installing tiles and stones with TILEX 521 - Two Component Resin Based Hybrid Adhesive, on dry wall boards, it is important to see that the joint spaces between the adjacent boards should be carried up to the top of tile and the adhesive mortar is not allowed to enter the space between the boards.

It is recommended to use spacers to create joints while filling up the joints between tiles and stones installed on dry wall boards use highly flexible grout material like ROOFEXSEAL PU Sealants. All plane changes, Corner and differential elements must be provided with flexible filler materials POLYURETHANE SEALANTS ROOFEXSEAL PU.

COVERAGE : Approximately 25 Sq.ft per 10 Kg material (Part A - Part B) with a 6 mm x 6 mm notched trowel for 3mm thickness

PACKING : 10 & 20 Kgs.

SHELF LIFE : 1 Year from the date of Manufacturing

Whilst **ARMSTRONG CHEMICALS PVT LTD** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



Manufacturers :

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