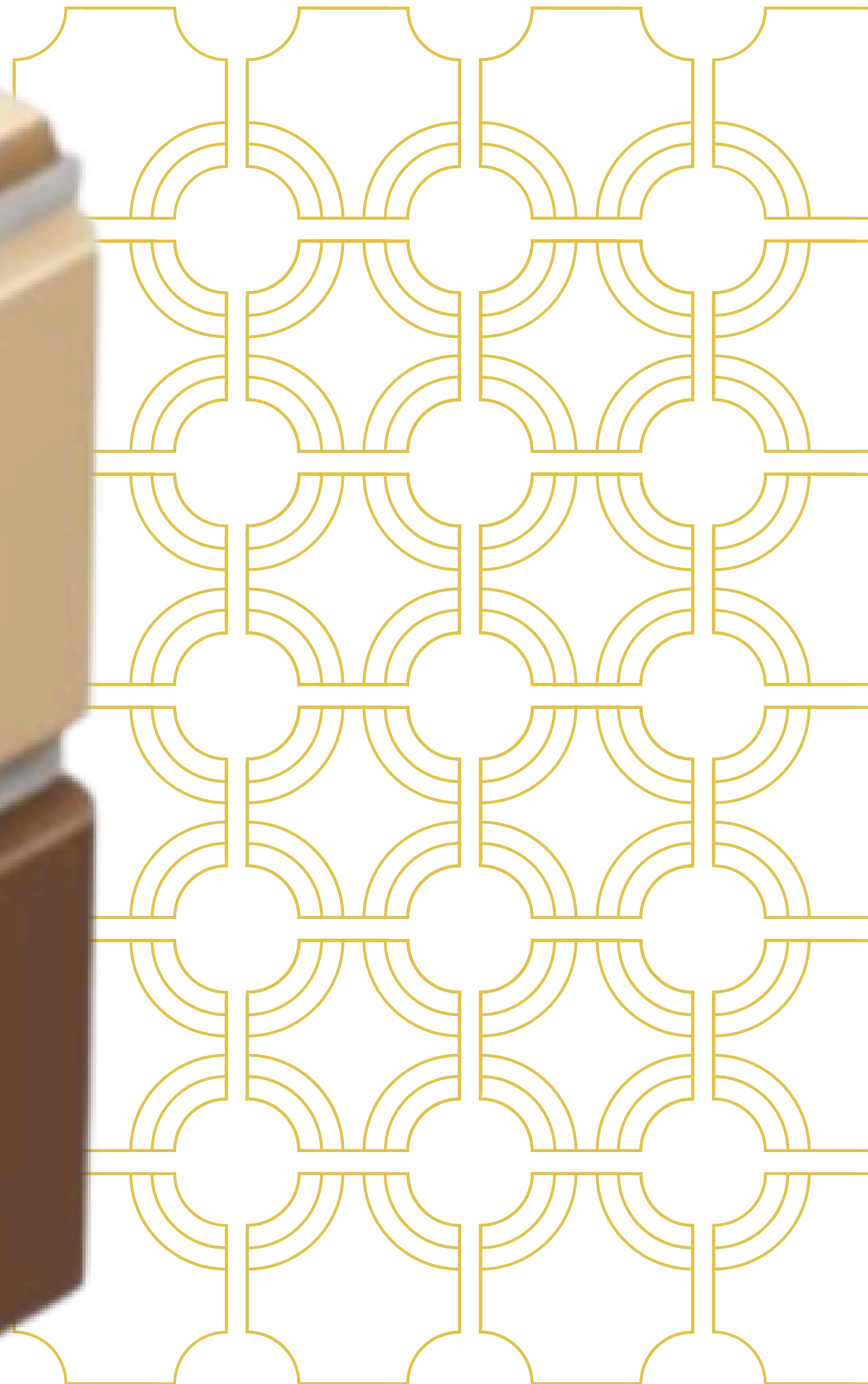




FABRO Gold

THE GOLDEN STANDERD
OF TILING



**TECHNICAL
DATA SHEET**

(TDS)

Type - 5TS2

PU-555 (2K)

HIGHLY FLEXIBLE, 2K ADHESIVE FOR DIVERSE SURFACES LIKE METAL, PLYWOOD & DRYWALLS



THE GOLDEN STANDERD OF TILING



	For Internal & External Floor & Wall		PU Epoxy Hybrid
	Metal, Plywood, Drywall boards		High Bond Strength
	Highly Flexible		Low VOC



DESCRIPTION

Fabro Gold PU-555 is a two component, Polyurethane/Epoxy based, highly flexible, high performance, multipurpose, thin-set adhesive for fixing all types of tiles & stones including composites, engineered/ nano stone, metal & glass tiles on interior and exterior floor & wall. It is suitable for fixing tiles/ stones over diverse surfaces like cement-based substrate, metal substrates, epoxy/ PU based substrate, drywall boards, PVC, plywood, wood derivative and highly deformable & expandable, absorbent & non-absorbent substrates.

STANDARD COMPLIANCE/ SPECIFICATION

Fabro Gold Tile Adhesive complies to Type 5 'T S2' as per "IS 15477: 2019 - Adhesives for use with ceramic, mosaic and stone tiles.



FEATURES AND ADVANTAGES

- Two components; just mix and use.
- Long open time - suitable for large format & external condition too.
- Water, freezing, thermal shock resistant.
- Sustains heat ageing - Idea for external & high temperature applications.
- Highly flexible adhesive - sustains heavy vibrations.
- Chemical resistant & resistance to solvents, alkalis & oils.
- Suitable for multiple substrates including glass, metals, drywalls & plywood.
- Suitable for fixing all tiles/ stones including composites, artificial stones, metal & glass tiles.
- Low VOC - for healthy living.



Material to be fixed	On Surface/Substance	Area of Application
All types tiles, glass mosaic tiles, large format tiles, precast terrazzo, all-natural stones, large thin/ slim tiles, composites/ artificial/ nano/ engineered stone, metal & glass tiles.	Cement-based surfaces (screeds, plaster, concrete), metal surfaces (iron, steel, copper, aluminum etc.), Epoxy/ PU based substrate, drywall surfaces (like gypsum/ bison/ fibre / cement board) existing tiles & stones, plywood, mdf & wood derivative, rubber, PVC, glass etc.	Floor and walls, internal & external area, window/ door frame, vibrational area, kitchens, balconies, flat roofs, domes, terraces, domestic applications, commercial applications, industrial application.

For all external wall tile/ stone fixing & drywall tile installation, Consult with Fabro Gold technical team.

LIMITATIONS

- Don't use in contact with polystyrene or on substrates which are not fully cured and subjected to moisture rising.
- Do not use Fabro Gold PU-555 to bond transparent glass materials.
- Adhesives for ceramic tile, bricks and stone are not designed as replacements for waterproof coating. Use Fabro Gold waterproofing coating before tiling for wet area.

Application Instructions

SUBSTRATE PREPARATION

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 10 ft(3m)_
- Dry, dusty surfaces should be dampened with water & excess water should be swept off.
- New concrete slabs shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface.
- Rust on iron surfaces must be removed by sandblasting .
- Expansion joints to be provided & filled with suitable sealant.
- Do not cover expansion joints with thin set tile adhesive/ tile.

MIXING

- The two components of Fabro Gold PU-555 are supplied in ready-to-mix bucket.
- Pour the part B into part A and mix well until a uniform white paste is obtained.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- The ratio of the part A and part B is fixed, and any modification and/or inappropriate ratio could cause incorrect hardening of the product.

Application Process



- Apply adhesive to the substrate with the flat side of the trowel.
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 60 minutes of adhesive being applied, depending on atmospheric conditions.
- Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- Leave adequate joints between individual wall and floor tiles using Fabro Gold spacers. The joint width shall be as per the recommendation of architect / engineer.
- Provide joints (spaces) on the periphery of the area without allowing the tile / stone to be bound by the peripheral area.
- Fill the resulting grout joints with flexible materials like Fabro Gold epoxy range/ suitable silicon or acrylic sealants.
- Clean off surplus adhesive from the tile face and between joints.
- Clean tools and tile work with water or suitable solven while adhesive is fresh. Once cured, the adhesive can only be removed by mechanical means.

Technical Information

Performance properties as per is 15477:2019 (Type '5' TS2)

Testing Properties	Requirments	Testing Result
a) Tensile adhesion at dry condition, after 28 days	≥ 2.0 N/mm ²	≈2.5 N/mm ²
b) Tensile Adhesion at Wet condition	-	-
c) Shear Adhesion at Dry Condition	≥ 6.0 N/mm ²	≈7.0 N/mm ²
d) Shear Adhesion at Wet condition	-	-
e) Shear Adhesion at Heat Ageing	≥ 3 N/mm ²	≈6.0 N/mm ²
f) Slip resistance	>0.5 mm	≈0.18 mm (T)
g) Deformation	≥ 5 mm	≈ 30 mm (S2)

all test results are for a specified batch of materal and practical Values are Subjected to Deivation up to ± 10% to 15% as per the practical Implications by various technician under Specified Laboratory Equipments & condition

Technical Information

Application Properties

Testing Properties	Testing Result
• Component Appearance	Part A (Base) : White Paste Part B (Hardener) : Liquid
• Mixing Ratio (Part A : Part B)	Part A - 3.600 kg & Part B - 0.400 kg (Part A : Part B – 9 : 1 by weight)
• Mixed Material Appearance	Off White Paste Consistency
• Mixed Density	1.65 ± 0.1 kg/ litre
• Open Time	Min. 60 minutes
• Adjustability	Min. 60 minutes
• Pot Life	Min. 60 minutes
• Sag/ Slip	≤ 0.5 mm
• Application Temperature (substrates and materials)	10°C to 40°C
• Resistance to temperature	-40°C to +100°C
• Setting/ Trafficable/ Grouting Time	48 hours
• Interval before normal use	3 days (7 days for heavy duty traffic)



PRECAUTIONS & NOTE

- Do not use on damp surfaces or where there is a risk of rising damp.
- The packs are pre-measured, therefore mixing errors are impossible. For partial mixing, weigh the two parts precisely.
- Any modification and/or inappropriate ratio could cause incorrect hardening of the product.
- Protect against direct rain/ foot traffic for at least 24 hours.
- Tiles/ stones should not be installed directly on expansion joints.
- Leave gap between the tile & fill gaps with Fabro grout.
- Designer/ applicator must evaluate the use of an additional mechanical fastening system for extra security for more than 3 m height (such as steel hooks fastened).

COVERAGE

- 16 - 20 sq. ft/ 4 kg pack - 1.5 mm bed thickness (using 3 mm x 3 mm notch).
- 8 - 10 sq. ft/ 4 kg pack - 3 mm bed thickness (using 6 mm x 6 mm notch).

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

SHELF LIFE

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

GROUTING

Grouting should be carried out after 24 hours of tiling. Use the appropriate grouting material from Fabro Gold range of cementitious and epoxy grouts.

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.