



TECHNICAL DATA SHEET

GOLD

C2T (TYPE 2)



High Performance, Polymer-Modified, Cement-Based Tile Adhesive

Mapisa369 GOLD is a premium polymer-enriched tile adhesive formulated to meet the requirements of C2T, Type 2 classification as per EN 12004 and standard as per IS 15477:2019. Engineered for superior bonding strength and durability, it is ideal for heavy-duty applications, including tile-on-tile and stone installations in challenging environments. It provides excellent workability, no vertical slip, and extended durability in both wet and dry areas.

CHARACTERISTICS

- Type: Cementitious adhesive with improved performance (C2)
- Slip Resistance: No vertical slip (T)
- Water Resistance: High
- Elasticity/Flexibility: Enhanced (Type 2 Polymer-Modified)
- Open Time: Extended
- Workability: Smooth and creamy consistency
- Tile Types Supported: Ceramic, vitrified, marble, granite Frame etc
- Coverage: Approx 50-60 sq. ft. per 20 kg Bag @3mm thickness when using thin trowel.
- Approx 25-30 sq. ft. per 20 kg Bag @6mm thickness when using thin trowel.

SCOPE OF USE

- Internal and external tile and stone applications
- High-traffic commercial flooring and industrial zones
- Balconies, terraces, swimming pools, wet areas
- Suitable for: Concrete and cement screeds
- Plastered surfaces
- Existing tiles (tile-on-tile)
- Fiber cement boards and bricks
- Heated subfloors and facades

SUBSTRATE PREPARATION

Substrates must be structurally sound, fully cured, and free from dust, dirt, oil, grease, or loose particles. For absorbent substrates, dampen the surface slightly or use a primer. On existing tile surfaces, ensure proper roughening and degreasing before application. Cracks or irregularities must be repaired. Highly deformable substrates may require a primer or reinforcement mesh. The moisture content of the substrate must be within the acceptable limits before tiling begins.

APPLICATION

1. Mixing: Add 5-7 liters of clean water per 20 kg of Mapisa369 Gold powder. Mix using a mechanical stirrer for 3-5 minutes to obtain a smooth, lump-free paste. Let stand for 5 minutes, then remix briefly.
2. Adhesive Application: Use a suitable notched trowel to spread the adhesive evenly on the surface. Ensure full coverage of tile backs, especially for large-format or heavy tiles.
3. Tile Fixing: Fix tiles within 20-30 minutes of spreading the adhesive. Press tiles firmly with a slight twisting motion. Periodically check for full adhesive transfer to the tile back.
4. Adjustment Time: Up to 20 minutes after placing tiles.
5. Grouting: Can begin after 24 hours on walls and 48 hours on floors.
6. Health & Safety: Cement-based – use gloves, mask, and goggles. Take Preventive measures.

REFERENCE IMAGES



1. Mixing



2. Adhesive Application



3. Tile Fixing



4. Adjustment Time

GENERAL DATA



- Appearance: Grey or white powder
- Packaging: 20 kg and 40 kg (for Project Sale Only)
- Shelf Life: 12 months in original packaging
- Storage: Store in a dry, cool area away from direct sunlight and moisture
- Health & Safety: Cement-based – use gloves, mask, and goggles. Take Preventive measures.

TECHNICAL DATA

PERFORMANCE PROPERTIES AS PER ISO 13007 / EN 12004

Test Properties	Requirements	Mapisa369 GOLD Result
Open Time	30 min	25 - 35 min
Adjustability	35 min	30 min
Pot Life	120 min	120 min
Tensile adhesion at dry condition, after 28 days	$\geq 1.10 \text{ N/mm}^2$	$\geq 1.25 \text{ N/mm}^2$
Shear Adhesion at Dry Condition	$\geq 1.25 \text{ N/mm}^2$	$\geq 1.45 \text{ N/mm}^2$
Slip resistance	$\leq 0.5 \text{ mm}$	0.31 mm

PERFORMANCE PROPERTIES AS PER IS 15477: 2019

Testing Properties	Requirements	Mapisa369 GOLD Result
Tensile Adhesion - Dry Conditions	$\geq 1.10 \text{ N/mm}^2$	1.10 – 1.25 N/mm ²
Tensile Adhesion - Wet Conditions	$\geq 1.10 \text{ N/mm}^2$	1.25 – 1.45 N/mm ²
Shear Adhesion - Dry	$\geq 1.10 \text{ N/mm}^2$	1.25 – 1.45 N/mm ²
Shear Adhesion - Heat Ageing	$\geq 1.10 \text{ N/mm}^2$	1.10 – 1.25 N/mm ²
Shear Adhesion - Wet	$\geq 1.10 \text{ N/mm}^2$	1.10 – 1.25 N/mm ²
Slip Resistance	$\leq 0.5 \text{ mm}$	0.3 – 0.4 mm



MAPISA

MOST IMPORTANT INSTRUCTION TO FIX GRANITE, HARD STONE, ELEVATION STONE ETC...

For fixing Tiles Granite and Hard stone & other consider strictly below steps:

1. Surface preparation: Scrub or roughen the back side with a grinder to enhance bonding.
2. Primer application: Use a suitable primer like Mapisa 369 TKD (Back Tile Primer) or equivalent to improve adhesion.
3. Mechanical fixation: For installations above 10 feet in height (inside or outside), use fasteners to ensure stability and safety.
4. Ensure the substrate is clean, dry, and stable.
5. Choose the right adhesive and follow manufacturer instructions.
6. Consider consulting a professional for complex or high-risk installations.
7. 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. Expansion joints to be provided & filled with suitable sealant. Do not cover expansion joints with thin set tile adhesive/ tile.
8. Add 2.5 - 3 parts of powder to 1 part of water or 5 - 7 litre water for 20 Kg powder in a clean mixing vessel. Adjust the water as per desired consistency. 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. No further water should be added. Apply adhesive to the substrate with the flat side of the Trowel.



9. 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 30 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.

10. 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.

11. For highly absorbent natural stones which may form a wet patch when adhesive is used, it is recommended to use suitable Impregnating sealer on all sides. Please refer Technical Data Sheets of product intended for use for specific instructions of use For highly absorbent surfaces like drywalls or consult with our technical team. Leave adequate joints between individual wall and floor tiles using the spacers. The joint width shall be as per the recommendation of architect / engineer.



12. Clean off surplus adhesive from the tile face and between joints. Clean tools and tile work with water while adhesive is fresh.