



Master Flex 535

High performance, Deformable Tile Adhesive C2TES1 / T 3Ts1



ISO 9001:2015



Smart Cities & Green Building Concept in India



Description

MASTER FLEX 535 is flexible high polymer modified thinset adhesive for fixing large format tiles, stones, granite on interior and exterior wall & floor.

Features and Benefits

- Ready to use, only need water for mixing.
- Flexible adhesive, which allows it to sustain low to medium vibration in substrate.
- Excellent Tensile and Shear Adhesion
- Suitable for indoor and outdoor use.
- Excellent adhesion, Low shrinkage.
- Suitable for large size ceramic, vitrified tiles, glass mosaic, natural stones, granite marble.
- Can be used for new construction, as well as for renovation over existing floors/facades.
- Extended open time and no vertical slip.
- Sustains heat ageing, making it ideal for high temperature locations for outdoor use, and also for hot temperature applications, like Jacuzzi, sauna etc.
- Absorbs dynamic load.
- Useful for bed thickness of 3-12 mm. May go upto 15mm in limited extent.

Recommended Substrate

- Cement Plaster
- Mivon & Precast concrete
- Tile on Tile Application
- Heavy Traffic Area
- Cement Screed
- External Top terrace
- Brick Masonry
- Underwater area like swimming pool & fountain

Application Methodology

Surface Preparation

- The surface to be tiled should be sound and thoroughly clean to remove all oil, grease and dirt.
- Surface should be in level to achieve desired coverage.
- Wet the surface before application of adhesive.

Mixing

- Add three parts of MASTER Flex 535 powder to one part of water. The addition of water should be adjusted to attain the desired consistency. Always add powder into water.
- Mixing can be done manually or by low speed Stirrer continuously for 5 to 10 Min to obtain homogeneous lump free paste.
- After proper mixing leave paste for 5 minutes for polymeric dispersion.
- Use paste within 90 min.

NOTE:

- Do not attempt to extend the pot life by adding more water to the mix.
- Do not add any additional substance, like cement, sand etc. to the mix. These may adversely affect the performance of the product

Limitations

- Do not use on wet screed or plaster. Surface must be fully cured.
- Can only be used on cementitious waterproofing. Don't use on epoxy or polyurethane water proofing.
- Do not use for installing glass tiles or metal tiles.
- Do not use on Metal, rubber, plastics, vinyl, linoleum surface, painted substrate

Applying the mix

- Spread the adhesive with notched trowel, remember to only apply the adhesive paste that can be tiled within 30 minutes
- Start placing the tiles on the surface to be tiled. Place the tiles properly to ensure complete coverage of the backside of tiles and to eliminate the possibility of any air voids
- Double buttering of adhesive is recommended for fixing heavy tiles
- Keep joints between two-tiles by using spacers.

Product details

Appearance	Grey & White Powder
Bulk Density	1.5 to 1.6 gm/cc
Mix Density	1.75 to 1.85 gm/cc
Mixing Ratio	3 : 1 by volume (powder to water)
Open time	30 minutes
Pot life	90 min
Adjustment time	30 min
Foot trafficable	24 hrs

Technical standards and performance

The adhesive mortar conforms to EN12004 / ISO 13007 as C2TES1 / T 3 TS1

Classification	Property	Requirement	Master Flex
C2 – Improved cementitious adhesives	Tensile adhesion strength	≥ 1.0 N/mm ²	1.47 N/mm ²
	Tensile adhesion strength after water immersion	≥ 1.0 N/mm ²	1.4 N/mm ²
	Tensile adhesion strength after heat ageing	≥ 1.0 N/mm ²	1.31 N/mm ²
	Tensile adhesion strength after freeze-thaw cycle	≥ 1.0 N/mm ²	N/A
T – Slip resistance	Slip	≥ 0.5 mm	No slip
E – Extended open time	Extended open time: tensile adhesion strength	≥ 0.5 N/mm ²	0.83N/mm ²
S – Deformable	Deformable adhesive (S1)	≥ 2.5 mm, < 5mm	2.7mm

The Adhesive mortar conforms to IS 15477: 2019 - Type 3 T S1 Adhesive

Classification	Characteristic	Requirement	Master Flex 535
Type 3 Adhesive	Tensile adhesion dry	1.5 N/mm ²	1.7 N/mm ²
	Tensile adhesion wet	1 N/mm ²	1.5 N/mm ²
	Shear adhesion strength : Dry condition	1.5N/mm ²	1.7 N/mm ²
	Shear adhesion strength : Heat ageing conditions	1.0 N/mm ²	1.8 N/mm ²
	Shear adhesion strength : Wet Condition	1.0 N/mm ²	1.3 N/mm ²

Coverage

50 – 60 Sqft/ 20 kg bag square notched trowel for thickness of 3mm.

Packaging

20 Kg BOPP bag

Storage

MASTER FLEX 535 has a shelf life of 12 months, when stored in unopened bag under normal warehouse conditions.

Caution

For health & safety gloves should be worn during application. Any splashes on the skin or eyes must be washed off with clean water. Incase of prolonged irritation medical advice should be sought.

GLOBE CONSTRUCTION CHEMICAL PVT. LTD.

An ISO 9001 : 2015 Company

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