Ultra BOND
CONSTRUCTION CHEMICALS



ULTRABOND DIAMOND EX 450
POLYMER MODIFIED TILE ADHESIVE



DESCRIPTION

Multipurpose highly flexible polymer modified adhesive for fixing large format tiles and stones on interior and exterior floor and wall.

APPLICATION AREAS

Designed for interior and exterior floor and wall installation of all types of ceramic tile, vitrified tile, glass mosaic tile, precast terrazzo, natural stones over concrete and on a variety of substrate. This product can be used for wet area like swimming pool & washrooms. Can be used for tile on tile application.

FEATURES & BENEFITS

- Specially designed for all interior & exterior floor and wall application
- Easy to use - just add water on site, ready to use
- Highly Polymer modified - provides good adhesion, allows to bond with variety of substrates, for fixing a variety of tiles and stones
- Water & shock resistant - suitable for wet areas & commercial floor too
- Higher deformability than standard adhesive . Flexible adhesive - allows to sustain minor vibration in substrate
- Long open time - suitable for large format & external condition
- Complies with EN / ISO specifications

SUBSTRATES

- Cement based plaster/renders,
- concrete surfaces
- existing tiles and stones
- dry wall like cement board, gypsum board
- cementitious water proofing area.

CERTIFICATIONS

IS 15477:2019-Type-4 C2TES2 Adhesive

TECHNICAL SPECIFICATION

SL.NO	PARAMETER	UNIT	REQUIREMENT	OBSERVED VALUE
1	TENSILE ADHESION			
1A	DRY CONDITIONS	N/MM2	1.50	1.55 - 1.65
1B	WET CONDITION	N/MM2	1.0	1.15 - 1.25
2	SHEAR ADHESION			
2A	DRY CONDITION	N/MM2	1.50	1.60 - 1.70
2B	HEAT AGING CONDITIONS	N/MM2	1.0	1.10 -1.20
2C	WET CONDITION	N/MM2	1.0	1.15 -1.25
3	SLIP RESISTANCE	MM	≤ 0.5	0.26
4	OPEN TIME	MINUTE	AS PER MANUFACTURER	40-45
5	ADJUSTABILITY TIME	MINUTE	AS PER MANUFACTURER	45-50
6	POT LIFE	HOURS	AS PER MANUFACTURER	2-3
7	DEFORMATION (S2)	mm	≥ 5.0	≥ 5.0
8	WATER DEMAND	LTR	—	5.0-5.5 Ltr./ 20 kg Bag
9	TIME FOOT TRAFFIC	HOURS	—	AFTER 24 HRS

Note: Test results are indicative as per test method specified in standard. Test result may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation method and site condition.

METHOD OF APPLICATION

SURFACE PREPARATION

Clean the substrate of oil stains and bond inhibiting compounds. Also remove dirt, dust and laitance if any using high pressure water jet or any other suitable method. Ensure that the substrate is flat, stable, well adhered and has a normal absorption. For fresh plasters & screeds ensure complete curing as recommended.

MIXING

Take 5.0 to 5.5 litres of tap water in a clean mixing bowl or bucket and add 20 kg of Ultrabond EX 450. Stir for 5 minutes by hand or an electric stirrer to get a smooth and homogeneous mixture.After stirring wait for 5 minutes, Stir once again. Adjust the consistency if necessary. Ensure that no powder, lumps particle and unmixed material left in the mixture.

APPLICATION

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 -15 minutes. Back butter large format tiles to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to embed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. Use of Ultrabond spacers is recommended to provide grout joints between tiles / stones. The joint width shall be as per the recommendation of architect / engineer. Remove the spacers when the adhesive is set firm. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

PRECAUTIONS & NOTE

- Always add powder to water.
- Do not add excess water than recommended.
- Never add sand & cement at site.
- Do not use on wet screed. Surface must be fully cured.
- Do not use the adhesive to correct surface irregularities greater than 15 mm.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Leave gap between the tile & fill gaps with EX 20 tile grout.

PACKAGING
Grey –20 kg bag

GROUTING
Grouting should be carried out after 24 hours of tiling.

COVERAGE
Approximately 60-65 Sft per 20 kg bag with (6mm×6mm) square notched trowel for average bed thickness of 3mm.

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

SHELF LIFE
12 months for sealed pack when stored under cover, out of direct sunlight, damp-proof condition and protect from extremes o f temperature.

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 detailed materal safety data sheet please contact the manufacturer

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