

TECHINCAL DATA SHEET

TILE ADHESIVE-EX-44 EXTERNAL EXPERT

Tile Adhesive EX-44 (Grey) is highly polymerised, cement-based Grey coloured adhesive formulated with special properties like water resistant, slip resistance, flexibility and extended open time. It is suitable for tiles and stone tiles on exterior wall substrate like concrete or plaster. It is suitable for tiles like ceramic, clay tiles, basalt tiles, vitrified, glass mosaic tiles and porcelain tiles and all natural stone tiles.

PRODUCT DESCRIPTION

PRODUCT: Tile Adhesive EX-44 (Grey) is TYPE-III tile adhesive. Grey cementitious adhesive for fixing tiles for thin bed applications develops high efficiency, high strength and high-quality.



COMPOSITION	Graded sand, cement, selected fillers, polymers
COLOUR	Grey dry powder
TESTS	Tested according to IS 15477:2019
FEATURES	<ul style="list-style-type: none"> • Easy mixing, smooth application & good workability • Excellent bond to various building material substrate • No curing required • Highly water resistant • Extended open time • Excellent tensile & shear adhesion strength
USES	<ul style="list-style-type: none"> • Suitable for interior and exterior, wall & floors applications • Can be used for new/ old walls and tile on tile application • Consistent work quality • High durability • Negligible waste • Saves time

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TECHNICAL ANALYSIS (TYPE III: CONFORMS TO IS 15477:2019)

PARAMETERS	SPECIFICATIONS
Spread ability	Spread easily with good notch ability
Open Time	≥35 minutes
Adjustability	≥35 minutes
Slip Resistance	< 0.5mm
Pot Life	> 120 minutes
Density	1.5 -1.9 g/ml
Deformability S1 (After 28 Days)	≥ 2.5mm - < 5.0mm
Tensile Adhesion Strength (Dry Condition, After 28 Days)	Minimum 1.5 N/mm ²
Tensile Adhesion Strength (Wet Condition, After 28 Days)	Minimum 1.0 N/mm ²
Shear Adhesion Strength (Dry Condition, After 28 Days)	Minimum 1.5 N/mm ²
Shear Adhesion Strength (Heat Aging Condition, After 28 Days)	Minimum 1.0 N/mm ²
Shear Adhesion Strength (Wet Condition, After 28 Days)	Minimum 1.0 N/mm ²

GUIDANCE FOR USE

SUBSTRATE

- Cement-based backgrounds
- Cement plaster
- Cement Concrete
- Cement screed
- Tiles and stone tiles on the exterior substrate

SUBSTRATE PREPARATION

- Clean loose particles, dirt, grease, and traces of foreign materials from the surface, if necessary, by using wire brush/sandpaper or by chipping.
- For loose plaster areas or floors/wall which are not even, then remove the defective material and re-plaster the area with Ready-Mix Plaster to make them even.

MIXING

- Take approx. 200-300 ml of clean water for 1 Kg of Tile Adhesive EX-44 (Grey) in a clean bucket. It is very important that add material into water and not vice versa.
- Stir continuously for 3 - 5 minutes by using mechanical stirrer or by hand to obtain a homogeneous lump- free paste.
- Allow the resultant paste to stand for about 10 minutes for the additives to dissolve.
- Re-mix again for about 2 minutes. The mixture is now ready to apply.

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APPLICATION	<ul style="list-style-type: none"> Dampen the surface to be plastered with clean water. Allow excess water to drain off. The tiles should be immersed in water for about two hours before fixing. Apply the material with the help of putty patra/ blade, use 6 mm notched trowel for application. Application should be angled between 35 to 45 degrees, using the right amount of pressure. Check for holes and gaps in the adhesive, spread it evenly. Fix the tile in place and tap gently with a wooden hammer. Using a notched trowel remove excess mixture from the tile and clean it by using a damp cloth or sponge.
COVERAGE	<ul style="list-style-type: none"> 50 - 60 sq. ft./ Bag (20 Kg) at 3mm thickness on a plain surface (Or depending on substrate conditions).
USAGE PRECAUTIONS	<ul style="list-style-type: none"> Do not add more water than recommended. Maximum adhesive thickness 3 - 12mm. Do not directly use on gypsum plaster surface, paint, wood, and metal. Before tile-on-tile application, ensure that the original tiling surface has enough roughness to provide the required high-strength bonding.
PACK SIZE	<ul style="list-style-type: none"> 20 Kg
SHELF LIFE	<ul style="list-style-type: none"> 12 months

STORAGE INSTRUCTIONS

- Store in cool, dry, and well-ventilated place away from heat source or direct sunlight.
- Keep away from water and damp area.
- Avoid using partially used material; open bags with partially used material should be kept in a bag with its mouth tied tightly with string to prevent lump formation.
- As temperature, humidity, water addition and other parameters vary from site to site; the above information should be treated as general guidelines.

HEALTH & SAFETY INFORMATION

- It contains only eco-friendly fillers and additives. However, being cement-based, it is alkaline and hence it is advisable to avoid direct eye and skin contact with this. In case of eye contact, kindly wash with clean water at least for 15 minutes and seek medical help and keep it out of children's reach.

Disclaimer: Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.