

LX-7

Gresbond High Performance Tile Adhesive

PRODUCT DESCRIPTION:

A highly deformable, polymer-modified tile adhesive for large-format tiles and stones. Suitable for both wall and floor installations.

GRESBOND LX-7 Super Flex is a multipurpose, highly polymer-modified, and highly deformable adhesive designed for the installation of large-format tiles and stones on various substrates. Its superior flexibility accommodates movements in the substrate, ensuring exceptional performance with sag and slump resistance. Suitable for both wall and floor installations with bed thickness up to 15 mm.

Note : Not recommended for direct use onto gypsum plaster (wall finishes), paint, or metal.



SUBSTRATES	APPLICATIONS
Precast concrete	Interior and exterior installations
Shear walls	Wet areas (swimming pools, saunas, washrooms)
Concrete	Tile-on-tile applications
Cement plaster	
Cement mortar beds	
Brick masonry	
Ceramic, vitrified tiles, and natural stone	
Gypsum wallboard (for dry areas)	
Calcium silicate boards (for dry areas)	
Fiber cement boards	
	Features / Benefits:
	High strength
	Superior flexibility
	Extended open time
	Non-sag/non-slump
	Crack resistance
	Impact resistance
	Meets IS 15477 Type 4/TS1 Adhesive standards

- ◆ **CERTIFICATIONS :** IS 15477:2019 - Type: 4 T S1 **PACKAGING :** 20 kg
- ◆ **COLOUR :** Grey & White
- ◆ **TECHNICAL DATA:** Performance Properties: LX-7 Adhesive mixed with Water Applicable Standards: IS 15477:2019
- ◆ **COVERAGE :**
 - Approx. 55-60 sq. ft. per 20 kg bag (using a 6mm x 6mm notched trowel for a 3mm bed) (Can be used up to a maximum bed thickness of 15 mm). Coverage will vary depending on trowel notch size, type and size of tile, and substrate smoothness and evenness.
 - 1.2 kg/m² per mm of thickness (coverage may vary)

PROPERTY	VALUE
Mixed Density	1.6 -1.7 kg/ litre
Pot Life	Min. 120 minutes
Open Time	30 minutes Approx.
Adjustability	30 minutes Approx.
Setting Time	Approx. 1 Day
Full Strength	Approx. 14 Days
Tensile Strength	>1.50 N/mm ²
Shear Strength	>1.50 N/mm ²

IS DATA

Property: Test Method	Requirement	Typical Values
Tensile Adhesion		
Dry Condition – Annex A (Clause 5.1)	≥ 1.50 N/mm ²	1.65-1.95 N/mm ²
Wet Conditions – Annex A (Clause 5.1)	≥ 1.00 N/mm ²	1.40-1.45 N/mm ²
Shear Adhesion		
Dry Condition – Annex B (Clause 5.2)	≥ 1.50 N/mm ²	2.00-2.70 N/mm ²
Heat Ageing - Annex B (Clause 5.2)	≥ 1.00 N/mm ²	1.30-1.50 N/mm ²
Wet Conditions - Annex B (Clause 5.2)	≥ 1.00 N/mm ²	1.15-1.35 N/mm ²
Slip Resistance		
Slip Resistance – Annex E (Clause 5.5)	≤ 0.5 mm	0.30-0.40 mm
Transverse Deformation		
Deformability (S1) (Clause 5.6)	≥ 2.5 mm, < 5 mm	≥ 2.55 - 2.65mm

Specifications are subject to change without notification. The results shown are typical but reflect the test procedures used. Actual field performance will depend on installation methods and site conditions.

The Adhesive mortar conforms to IS 15477:2019 - Type 4T S1 Adhesive

NOTCH SIZE	COVERAGE
6 x 6 mm (3 mm bed)	55-61 ft ² (5.1-5.6 m ²)
9 x 9 mm (4.5 mm bed)	36-40 ft ² (3.3-3.7 m ²)
12 x 12 mm (6 mm bed)	28-31 ft ² (2.6-2.9 m ²)
18 x 18 mm (9 mm bed)	18-20 ft ² (1.7-1.9 m ²)

GRESBOND LX-7: Installation Guide for Large Format Tiles

This guide provides easy-to-follow instructions for installing large format/thin tiles using GRESBOND LX-7 adhesive.

BEFORE YOU BEGIN

- Ensure all surfaces are between 50°F (10°C) and 100°F (38°C).
- Verify the surface is structurally sound, clean, and free of dirt, oil, grease, paint, laitance, concrete sealers, or curing compounds.
- For very large format tiles: Remove any demolding wax powder on the back of the tile and any fiber mesh present.

SURFACE PREPARATION:

- **Floors:** The substrate should not have a variation exceeding 1/8" in 10 feet (3 mm in 3.05 m) or 1/16" in 24 inches (2 mm in 600 mm) when measured from high points.
- **Walls:** The prepared substrates should not have a variation exceeding 1/8" in 10 feet (3 mm in 3.05m) when measured from high points.
- Dampen dry, dusty concrete slabs or masonry and sweep off excess water before installation.
- New concrete slabs must be damp cured and at least 28 days old before installation.

SUITABLE BONDING SURFACES:

- Concrete or plaster that fully cured and absorbs water (tested by sprinkling water).
- Properly cured lightweight cementitious systems that are dry and meet manufacturer specifications.
- Cutback adhesive residue must be removed by wet scraping before installation.

MOVEMENT JOINTS:

- Install movement joints around the perimeter and other plane changes.
- Expansion joints in the substrate must be continued through the tile work.

MIXING GRESBOND LX-7:

- Use clean water and GRESBOND LX-7 powder in a ratio of 5.0-5.5 L water per 20 kg powder.
- Mix with a low-speed drill mixer until a smooth, paste-like consistency is achieved.
- Let the mixture stand for 03-05 minutes, then stir again before use.
- The mixture should hold troweled ridges without slumping when properly mixed.

APPLYING GRESBOND LX-7:

- **Suitable Trowel:** Use a properly sized notch trowel to ensure complete tile coverage.
- **Tile/Stone Application:**
 - ◆ Apply a skim coat of mortar to the surface using the flat side of the trowel.
 - ◆ With the notched trowel held at a 45° angle, comb additional mortar onto the surface in one direction.
 - ◆ Press the tile firmly into the mortar, moving back and forth to flatten ridges and ensure maximum coverage.
 - ◆ Adhesive mortar should not be used to fill low spots in the flooring. The mortar thickness should not exceed the specified range.
 - ◆ Back-buttering is mandatory for all large format tiles.
- **Glass Mosaic Tiles:**
 - ◆ Apply the adhesive with a scraping motion using a notched trowel with 4mm notches for a 1.5-2 mm bed thickness.
 - ◆ Set the tiles and gently tap them with a mallet to ensure full bedding.
 - ◆ After the tiles are firm, dampen the face of the mosaic sheets and remove the paper backing.
- **Wood Substrates:** Use GRESBOND EA-100 for tile or stone installations.

ADDITIONAL TIPS

- Use a mechanical edge-leveling system to minimize lippage during installation.
- Lightly tap the tile surface with a rubber mallet to ensure good contact with the mortar bed.
- Clean tools with water before the material dries.
- Store GRESBOND LX-7 in a cool, dry area.

GROUTING:

- Grout installation should commence after a minimum of 24 hours of curing time at 70°F (21°C).
- Use Gresbond Unsanded Grout mixed with Gresbond Grout Admix- KGA-01.
- For maximum stain resistance of internal spacer joints applications, use Gresbond KE-100 Stainfree Grout.

Note :

GRESBOND LX-7 and grouts are not replacements for waterproofing membranes. Use an appropriate membrane for waterproofing requirements.

Customer Care

Kajaria Ceramics Limited

J1/B1 (Extn.), Mohan Co-op Industrial Estate (Opp. Badarpur Thermal Power Station), Mathura Road, New Delhi - 110 044

Phone: +91-11-2694 6409 Fax: +91-11-2694 6407, 2694 9544 | Email: info@kajariagresbond.com