



Laticrete 4-XLT Rapid

DS-4XLR.0-0913

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

Laticrete 4-XLT Rapid

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

4-XLT Rapid is a fast setting, multi-use, polymer fortified adhesive mortar for large format tile installations. 4-XLT Rapid offers tremendous utility for non-sag wall installations, medium bed build up and thin-set applications on floors. 4-XLT Rapid is built on LATICRETE Water Dispersion Technology™ (WDT) platform. WDT provides for the complete dispersion of water within the mix allowing users to achieve the desired application consistency. 4-XLT Rapid also features LATICRETE DUST LOCK™ Technology, dramatically reducing onsite mess both during transportation of the product as well as while mixing.

Uses

- For wall installations of interior and exterior ceramic tile, porcelain tile and stone.
- Can be used as a medium bed mortar for flooring installations.
- Ideal for most types of thin-set flooring applications.

Advantages

- Rapid setting, ready for grouting in 3 to 4 hours.
- Incredible non-sag performance, including large and heavy tile.
- Excellent medium bed performance, (19 mm) thick without shrinkage.
- Utilizes Water Dispersion Technology allowing for different mortar consistencies.

- LATICRETE DUST LOCK Technology dramatically reduces mess both during transportation of the product as well as during mixing.
- Smooth and Creamy consistency
- "Extra Heavy" rating per ASTM C627 (TCNA)
- Exceeds ANSI A118.4 and A118.11 Shear Bond Strength Requirements

Suitable Substrates

- Exterior glue WBP plywood*
- Concrete
- Concrete block
- Ceramic tile and stone
- Gypsum wallboard*
- Cement backer board**
- Brick and concrete masonry

* Interior use only.

** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Packaging

20 kg bag

Colors

Grey and White

Approximate Coverage

Per 20kg bag

Trowel Size	m ²
(6 mm x 6 mm) notched trowel	6.7 – 8.0
(6 mm x 9 mm) notched trowel	5.0 – 5.9
(12 mm x 12 mm) notched trowel	3.3 – 4.0

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year* if stored off the ground in a dry area.

* High humidity will reduce the shelf life of bagged product.

Limitations

- Not for use directly over OSB, particle board, luan, Masonite® or hardwood floors.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Not for use over VAT, VCT, cutback adhesive, vinyl and plastic laminates.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use

a LATICRETE® waterproofing membrane (see Section 10 **FILING SYSTEM**).

- Not for use in submerged applications. For these applications, use 254 Platinum.

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or, L/480 for thin bed stone installations where L=span length or L/600 for exterior, vertical applications (except where local building codes specify more stringent deflection requirements)

Cautions

Consult MSDS for more safety information.

- Some marbles and other stones have low flexural strength and might not be suitable for installation over wood floors.
- Use LATAPOXY® 300 Adhesive for installing green marble or water sensitive stone and agglomerates, and resin backed tiles and stones.
- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- For white and light-colored stones, use 4-XLT Rapid (white).
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

ANSI A118.4, ANSI A118.11; EN 12004 C1FTE

Physical Properties

20kg sack mixed with 4.5 ℓ of water

Test	Test Method	Results
Initial tensile adhesion strength	EN 1348 – 8.2	>0.5 N/mm ²
Tensile adhesion after water immersion	EN 1348 – 8.3	>0.5 N/mm ²
Tensile adhesion after heat ageing	EN 1348 – 8.4	>0.5 N/mm ²
Tensile adhesion after Freeze Thaw cycles	EN 1348 – 8.5	>0.5 N/mm ²
Open time tensile adhesion after 30 mins	EN 1346	>0.5 N/mm ²
Non Slip on Wall	EN 1308	< 0.5mm

4-XLT Rapid is classified as a C1FTE per ISO 13007-2.

Working Properties

Open Time	40 minutes
Pot Life	30–50 minutes
Time To Grout	3–4 hours
Time to Heavy Traffic	5 hours

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

5. INSTALLATION

Surface Preparation

The substrate must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. They must also be structurally sound and strong enough to support the weight of the tiles being fixed. Worn or porous masonry surfaces should be sealed with NXT PRIMER diluted as 1 to 3 with water. Do not apply onto bare, un-sealed gypsum plaster or anhydrite floor screed before first sealing this type surface with two coats of neat NXT PRIMER.

New concrete slabs shall be damp cured and 28 days old before application. Movement joints shall be provided through the tile work from all existing construction or expansion joints in the substrate. Follow BS 5385–5:2009 section 8 for the design & installation of movement joints within the tiled area. Do not cover movement joints with mortar.

Minimum construction for interior plywood floors:

SUBFLOOR: minimum 15 mm thick (WBP) exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced no more than 400 mm maximum. Screw fix plywood at 150 mm (6") centres along sheet ends and 200 mm centres along intermediate supports with coated or hot galvanized screws; allow 3 mm between sheet ends and 6 mm between sheet edges at the perimeter; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: WBP 15 mm thick exterior glue plywood fastened at 150 mm (6") centres along sheet ends and 8" (200 mm) centres in the panel field (both directions) with coated or hot galvanized screws; allow 3 mm to 6 mm between sheets and 6 mm between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors".

Mixing — 20.0 kg bag

For Walls and Medium Bed Applications

Place 4.3 – 4.7 ℓ of clean water in a pail and slowly add the entire bag of 4-XLT Rapid. Mix with slow speed mixer for one minute, a noticeable change will occur when the mix transforms from what appears to be dry consistency to a usable consistency. DO NOT temper with water. Allow to stand for 1 minute, remix and use. Job site conditions might vary. Add slightly more water within five (5) minutes of completing second mix only to achieve the desired consistency (if necessary). Prior to the water dispersing action taking affect for wall and medium bed applications, mix may seem dry. Dependent upon the strength of the power mixer being utilized, it may be necessary to mix only 1/2 of a bag (10kg) at one time.

For Thin Bed Applications

Place 4.6 – 5.2 ℓ of clean water in a pail and slowly add the entire bag of 4-XLT Rapid. Mix with slow speed mixer for 1 minute or until a creamy smooth consistency is reached. Allow to stand for 1 minute, remix and use.

Application

Walls

Key materials into substrate thoroughly. Comb on additional mortar with the notched side, use a 6 mm x 9 mm notched trowel. Back butter all large format tile and stone more than 300 mm x 300 mm or larger to provide full bedding of the veneer.

Note: Use proper sized notched trowel to ensure full bedding of the tile. Spread only enough mortar that can be covered with tile within 15–20 minutes. Place tile and beat in with rubber mallet to embed. Adjust as necessary. Check mortar for complete coverage by periodically removing a tile and inspecting the transfer onto the back of the tile. The size and weight of the veneer will vary. Conduct a small test area for non-sag performance. Due to job site conditions and differences in finish material types; ledger boards, shims, wedges or spacers may be required to maintain finish levels and heights.

Medium Bed

Key the mortar to the substrate with the flat side of the trowel. Press firmly to work into the surface. Comb on additional mortar with the notched side. 12 mm x 12 mm or 18 mm half loop trowel.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes. Back butter large format tiles 300 mm x 300 mm to provide full bedding and firm support. Place tile into wet sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust until level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

Grouting:

Grout all joints within the installation after a minimum of 24 hours curing time at 70°F (21°C). Cooler temperatures require a longer curing time. Grout joints with either Laticrete Permacolour grout or Laticrete Spectralock Premium PRO grout in accordance with the product instructions.

Cleaning

Clean tools with water.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide. For on-line Distributor Information, call 0151 486 6101 or visit LATICRETE UK at www.laticrete.co.uk

7. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

8. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE UK Technical Service Hotline:

Tel: 0151 486 6101

Fax: 0151 448 1982

e-mail: sales@laticrete.co.uk

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.co.uk

9. DISCLAIMER

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.

This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.

The use of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.

The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.

The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

†United States Invention Patent No.: 6881768 (and other Patents)

^ United States Invention Patent No.: 6784229 B2 (and other Patents)

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