



LATICRETE® 335 Super Flex

DS-335.0-0913

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

LATICRETE® 335 Super Flex Tile adhesive

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

LATICRETE® 335 "Super-Flex" adhesive is a high performance polymer fortified cementitious powder to be mixed with water to install low absorption ceramic, porcelain & vitrified tiles including natural stone using the thin-set method of installation.

Uses

- For use in interior, exterior & fully immersed applications
- Suitable for use in wet & dry areas including kitchens, bathrooms, wet-rooms.
- Fixes ceramic, stone & porcelain tiles to all substrate types including impermeable surfaces, WBP exterior glued plywood and heated sub-floors
- Ideal for use in applications where a long open time is preferred.
- The long open time and high grab properties of this adhesive are optimised for fixing all tiles including porcelain and glass.

Advantages

- Mixes to a smooth and creamy paste.
- Easy to apply with all trowel sizes.
- For interior & exterior fixing.
- Extended open time.
- Conforms to EN 12004 C2TE-S1.
- Water & heat resistant.
- Suitable for fully immersed tiling.

Suitable Substrates

- Cement floor screed
- Concrete block & Render
- Ceramic tile & stone
- Heated sub-floors
- Masonry and brick
- Gypsum & Anhydrite
- Tile backer board*
- Gypsum plasterboard
- Exterior glue WBP Plywood***

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

** Sealed with 2 coats of NXT Primer

*** Interior only

Packaging 20 kg bag

Colors

Grey & White

Approximate Coverage

Per 20 kg bag mixed with 5 litres of water:

Trowel Size	m ²
6 mm x 6 mm notched trowel	6.6 – 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 sacks 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

- Mastics, adhesive mortars and pointing mortars for ceramic & stone tiles are not replacements for waterproofing membranes or air and water barriers. When a waterproofing membrane or air and water barriers is required, use LATICRETE® HYDROBAN Air & Water Barrier (see data sheets DS 633.0 & DS 633.5 for more information).
- Use the white version of LATICRETE® 335 mortar for installing white or light coloured marble or stone.
- Not for use over hardwood or strip wood flooring, particle board carpet adhesive, vinyl tile cutback adhesive or plastic laminates.
- Do not apply directly over expansion/movement joints or structural movement cracks.
- **Note:** Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes.
- Use LATAPOXY® 300 Adhesive for installing green marble,

Resin backed, or moisture sensitive tile, stone and agglomerates (refer to DS 633.0 for more information)

- Note: 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.

Cautions

Consult MSDS for more safety information.

- Some marbles and other stone have low flexural strength and might not be suitable for exterior installations, check with tile manufacturer for suitability.
- 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-coloured stone, conduct test area to ensure no shadowing or staining is observed.
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

Total VOC Content pounds/gallon (grams/litre) of product is 0.00 g/l.

Applicable Standard

EN 12004 C2TE-S1

Physical Properties

Mixed with water [5.0 l] per 20kg

Test	Test Method	Results
Initial tensile adhesion strength	EN 1348 – 8.2	>1.0 N/mm ²
Tensile adhesion after water immersion	EN 1348 – 8.3	>1.0 N/mm ²
Tensile adhesion after heat ageing	EN 1348 – 8.4	>1.0 N/mm ²
Tensile adhesion after Freeze Thaw cycles	EN 1348 – 8.5	>1.0 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

Working Properties

Pot Life	4 hours
Wet Density	1.7 gm/cm ³

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 of surface with two coats of neat NXT™ PRIMER.

New concrete slabs shall be damp cured and 28 days old before application. All slabs must be plumb and true to within 6 mm in 3 m. 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 kg) bag

Place approximately 5.0 l of clean water in a pail and slowly add the entire bag of 335 Super Flex. Mix with slow speed mixer for one minute or until a creamy smooth consistency is reached. Allow to stand for 5 minutes, remix and use. The consistency of the paste can be adjusted with slight additions of water or powder at the initial mixing stage however part-used adhesive should never be "freshened up" with later water additions. The mixed paste will remain useable for about 4 hours and should not be applied in temperatures below 5°C. In ideal conditions (20°C), this thin-bed adhesive will set after about 12 to 16 hours.

Application

For fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed on the substrate of no more than 6mm, into which the tiles are firmly bedded with a twist and slide action to ensure full contact.

Note: Use an appropriately sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 20–30 minutes. Use a 6mm x 6mm notch at 10mm centres for general wall tiling and 12mm x 12mm notch at 16mm centres for floor tiling. The position of the tiles can be adjusted up to 10 minutes after initial fixing.

Open time of the exposed mortar bed is up to 30 minutes, depending on surface porosity and site conditions. It is recommended that large format tiles (>300mm x 300mm) or those with raised or studded back profiles, (or in situations where dampness is likely after tiling), should be back-buttered to ensure a full solid bed fixing.

Surfaces that are rough or uneven may first be levelled with NXT™ LEVEL floor smoothing compound and when sufficiently firm (24 – 48 hours later), can then be followed by an application of LATICRETE® 335 Super Flex adhesive with a final average bed depth of 2 to 3mm thickness. Maximum recommended bed depth is 6mm.

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. Check mortar for complete coverage by periodically removing a tile and inspecting the transfer onto the back of the tile. 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.

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 Distributor Information, call 0151 486 6101 or visit LATICRETE® UK at www.laticrete.co.uk

7. MAINTENANCE

Non-finish LATICRETE® and LATAPOXY® installation 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.

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