



345 SUPER FLEX

DS-800-0226

For the Builders of a Better World™



1. PRODUCT NAME

345 SUPER FLEX

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

345 SUPER FLEX is a cement-based adhesive containing super-flexible polymers of the highest quality. The special polymers give it high deformability and adhesion. **345 SUPER FLEX** has been formulated for the quick and reliable installation of large-format tiles and stone; it can be used for thin-bed and medium-bed installations on walls and floors, with thicknesses of up to 20 mm. Its unique formula offers high slip resistance, allowing installation on vertical surfaces from top to bottom in damp or submerged environments. It can be used on existing tiles and in high-traffic areas.

Benefits

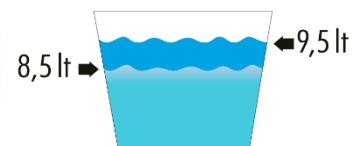
- Adhesive for all types of applications — excellent for indoor, outdoor and pool applications
- Available in grey and white
- The white version contains no sand and is ideal for glass mosaic.
- Single-component — mixed with water
- Long pot life — approximately 3 hours
- Thixotropic and zero vertical slip — suitable for walls
- Extended open time
- Frost-resistant — suitable for external applications
- Adhesive thickness up to 20 mm
- Highly resistant to sagging
- Excellent mechanical strength
- Low dust
- Highly deformable adhesive
- High yield
- Dual consistency (thixotropic and fluid)
- Compliant with CAM

VOC/LEED information

- GEV EMICODE: EC1 plus
- INDOOR AIR EMISSIONS: A+
- Compliant with CAM
- EPD compliant: Registration number EPDITALY1273 dated 16/12/2025

Standard

- EN 12004:2017: C2 TE S2
- ISO 9001:2015: CERT-09019-2001-AQ-BOL-SINCERT



Applications

- For indoor and outdoor installations of porcelain stoneware, thin ceramic slabs, non-absorbent single-fired tiles, double-fired tiles, moisture-stable natural and reconstituted stone (including large-format tiles) and glass mosaics.
- For walls or floors
- For installation over existing tiles
- For installation on underfloor heating screeds
- For high-traffic areas
- For thin-bed and medium-bed installations, for thicknesses up to 20 mm
- For the installation of large-format tiles
- For the installation of wall coverings subject to constant immersion, such as swimming pools or baths

Suitable substrates

- Concrete
 - Concrete blocks
 - Screeds
 - Heated screeds
 - Cementitious plaster
 - Flexible cement- and polymer-based waterproofing membranes (AQUA BARRIER and HYDROBAN ranges)
 - Old tiles and stone
 - Fibre cement board
 - Plasterboard (For internal use only, in dry environments)
 - Gypsum mortars and screeds (Internal use only) *
- *Treat beforehand with Primer Plus and Primer Superior

Maximum permitted sizes

- Interior: length of the longest side up to 360 cm
- Exterior: length of the longest side up to 120 cm
- Swimming pools: maximum side length up to 120 cm

Check the size limits in relation to the type of coating and substrate in the "CHOOSE THE RIGHT ADHESIVE" guide in the LATICRETE catalogue.

Packaging

White and Grey

25 kg per bag, 48 bags per pallet

Coverage / Consumption

- 1.5 kg/m² with a 4 mm notched trowel
- 3 kg/m² with an 8 mm notched trowel
- 3.5–4 kg/m² with a 10 mm notched trowel
- 7–8 kg/m² with a 20 mm notched trowel

Storage

Twelve (12) months in unopened original packaging, stored off the ground in a cool, dry place. High humidity will reduce the shelf life of the bagged product.

4. TECHNICAL DATA

Physical properties

Composition:	cement, aggregates, additives
Colour:	white / grey
Bulk density:	~ 0.92 g/cm ³
Maximum particle size:	0.3 mm
Flammability:	no

Performance

Classification according to EN 12004:2017:		C2 TE S2
	Value	Test method
Initial adhesion	≥ 1.0 N/mm ²	12004-2 8.3
Adhesion after immersion in water	≥ 1.0 N/mm ²	12004-2 8.3
Adhesion after thermal ageing	≥ 1.0 N/mm ²	12004-2 8.3
Adhesion after freeze-thaw cycles	≥ 1.0 N/mm ²	12004-2 8.3
Open time – Adhesion after 30 minutes	≥ 0.5 N/mm ²	12004-2 8.1
Transverse deformation	≥ 2.5 mm	12004-2 8.4
Vertical slip	≤ 0.5 mm	12004-2 8.2
Temperature resistance	From -30°C to +90°C	

Processing characteristics

Consistency of the mixture:	Creamy
Specific gravity of the compound:	1.40 g/cm ³
Mixing ratio:	Thixotropic: 34% (8.5 litres of water per 25 kg bag) Self-compacting: 38% (9.5 litres of water per 25 kg bag)
Application temperature:	From +5°C to +35°C
Maximum thickness:	20 mm
Working time:	~ 3 h
Open time:	~ 30 min
Walkable:	~18 hours
Grouting:	~ 18 hours
Ready for use:	~ 7 days
Final curing:	~ 28 days

(data recorded at +23°C, 50% relative humidity)

The technical data provided has been measured under standard laboratory conditions and is subject to change without notice. The actual performance of the product depends on site application conditions, the installation method used and the type of coating.

5. APPLICATION

Substrate preparation

All surfaces must be flat, structurally sound and compact; they must not have any loose parts and must be free from dust, grease, oil, paint and wax. Surface temperatures must be between 5°C and 35°C.

Do not use on gypsum or anhydrite substrates, on particularly absorbent substrates, or on dry, dusty concrete masonry without first treating them with a specific primer such as PRIMER PLUS or PRIMER SUPERIOR.

Ceramic and stone substrates must be clean, mechanically sound and firmly bonded to the substrate.

Product preparation

Mix the product only with clean water without adding other aggregates or hydraulic binders.

Mixing ratio:

- **As a thixotropic adhesive:** use approximately 8.5 litres of water with a 25 kg bag of powder.
- **As a self-wetting adhesive:** use 9.5 litres of water with a 25 kg bag of powder.

Add all the mixing water to a clean container, then add the powder and mix with a low-speed mixer until a creamy, spreadable consistency is achieved.

Leave to stand for 2 minutes. Then stir briefly before application, without adding any more water or powder. During use, you may stir occasionally to keep the mixture smooth without adding any more water.

Do not mix quantities of product greater than those that can be used within the product's pot life (approximately 3 hours).

Application

Spread the mixture onto the substrate, first with the flat side of the trowel and then with the notched side. Apply the adhesive in a uniform, continuous layer using a notched trowel suitable for the size of the tiles to be laid. Lay the tiles within the open time of the adhesive. **If the mixture has already set, do not attempt to restore workability by adding water.**

Ensure a compact, continuous layer of adhesive that fills at least 90% internally and 95% externally of the volume and allows contact with at least 90% internally and 95% externally of the surface of the tile and the substrate.

For applications in areas exposed to freezing temperatures or subject to particular mechanical stresses, 345 SUPER FLEX adhesive must be applied to both the substrate and the back of the tile (double-coating method).

The so-called 'full-bed' installation method is not permitted. Under no circumstances may a joint width of less than 2 mm be specified or used.

It is essential to respect structural joints in the wall cladding as well. Provide suitable expansion and perimeter joints that must divide the surface into square or rectangular grids with a side ratio not

exceeding 1.5. As a guide, the grids may have the following dimensions:

- indoor areas: from 5 m x 5 m to 6 m x 4 m;
- outdoor areas: from 3 m x 3 m to 4 m x 2.5 m.

Restrictions

- DO NOT apply to concrete that is less than 3 months old.
- On gypsum or anhydrite substrates, use PRIMER PLUS beforehand.
- DO NOT use on surfaces where rapid foot traffic is required.
- DO NOT use on metal, PVC, linoleum or wooden surfaces.
- DO NOT use with marble susceptible to rising damp.
- Suitable for laying stones with medium or low porosity and water absorption of less than 5%.
- Use the white version for white or light-coloured marble/stone.
- When laying natural or synthetic stone, refer to the properties of the product to be applied and the manufacturer's recommendations. If in doubt, it is advisable to carry out a test before laying
- Adhesives, mortars, sealants and grouts for ceramic tiles, flooring, bricks and stone are not designed to replace waterproof membranes. Where a waterproof barrier is required, use a LATICRETE® waterproofing membrane.

Warnings

- Product that has already begun to set must not be revived by adding water or fresh product. There is a risk of inadequate strength development.
- The product must be protected from water and frost until it has fully cured. This may take several days in adverse weather conditions.
- Avoid contact with skin and eyes. In case of irritation, wash thoroughly with clean, fresh water. In case of contact with eyes, seek medical attention immediately.

• FOR PROFESSIONAL USE

For further information, please refer to the product safety data sheet.

6. AVAILABILITY AND COSTS

Availability

LATICRETE® products are available worldwide. To find your nearest dealer, please contact LATICRETE EUROPE S.r.l.

Telephone: +39 059 535540

Email: info@laticreteeuropa.com

Website: <https://eu.laticrete.com/>

Prices

Please contact your nearest LATICRETE EUROPE S.r.l. stockist for full pricing information.

7. WARRANTY

The supplier guarantees that the product will not deteriorate under normal conditions of use. The warranty is valid for one (1) year. Contact Technical Support for further information.

Documentation

- DS-230.13EU-0121: Product warranty
- DS-230.10P.EU: 10-year product warranty
- DS 230.5-10-15EU: 15-year product warranty

8. MAINTENANCE

LATICRETE® products are high-quality products designed to provide long-lasting, maintenance-free installations; however, their durability and performance depend entirely on the type of cleaning products used.

9. TECHNICAL SERVICES

Technical support

For further information, please contact the Technical Department

Telephone: +39 059 535540

Email: info@laticreteeuropa.com

Technical and safety documentation

To obtain technical and safety documentation, please visit our website: <https://eu.laticrete.com/>

Warnings

The information and guidelines contained in this Technical Data Sheet, although based on knowledge acquired over years of application, are to be considered indicative. As LATICRETE® cannot directly control the installation conditions and application methods of the products, it accepts no liability arising from their installation. Anyone intending to use LATICRETE® products must carry out appropriate on-site tests to establish their suitability for the intended use.

Our products are covered by a warranty within the limits set out in our general terms and conditions of sale and within the limits of our products' compliance with the applicable technical specifications and certifications, as expressly indicated in the product data sheets or applicable technical documentation and expressly provided by us with the products themselves.

10. DOCUMENTATION

Further product information is available on our website at <https://eu.laticrete.com/>.