



# 345 SUPER FLEX

DS-800-1220

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

345 SUPER FLEX

## 2. MANUFACTURER

LATICRETE EUROPE S.r.l.

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## 3. PRODUCT DESCRIPTION

345 SUPER FLEX is an ultra pro premium multi-purpose adhesive, fortified with polymers to give it high deformability. 345 SUPER FLEX can be used on walls and floors for thin bed and medium bed installations for tile and stone.

### Uses

- For interior and exterior use
- Suitable for submerged applications
- For thin-bed and medium bed installations of ceramic tile, porcelain tile, and natural stone
- Particularly suitable for installation of large format tiles
- For thicknesses up to 20 mm
- Over HYDRO BAN or AQUA BARRIER waterproofing systems
- Suitable for heated substrates
- For heavy duty and high traffic areas
- Over existing wall and floor tiles

### Advantages

- Single component – just mix with water

- Good for swimming pools – suitable for submerged applications
- Premium performance and strength
- Extended pot life – 3 hours!
- Low VOC emissions – better indoor air quality
- Low dust – safe and easy to use
- Highly deformable and flexible — excellent workability
- Non-sag — good for vertical applications
- Particularly suitable for large-format porcelain panels and exterior applications

### Suitable Substrates

- Concrete
- Cement Mortar
- Cement Mortar Bed
- Cement Plaster/Render
- Cement Block
- CMU
- Poured Gypsum Underlayment (Interior dry areas only. Refer to LATICRETE TDS 148, Bonding Ceramic Tile or Stone Over Poured Gypsum Underlayments, for further information.)
- Gypsum Wallboard (Interior use only, non-wet areas)

### Packaging

25 kg bag

### Coverage / Consumption

- 1,5 kg/m<sup>2</sup> with a 4 mm notched trowel
- 3 kg/m<sup>2</sup> with a 8 mm notched trowel
- 3.5 - 4 kg/m<sup>2</sup> with a 10 mm notched trowel
- 7 - 8 kg/m<sup>2</sup> with a 20 mm notched trowel

### 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

- For installation of tile in heavy traffic areas and exterior locations, it is recommended to use a highly elastic bonded waterproofing system such as HYDRO BAN®.
- Fluid cement-based screeds, fluid anhydrite-based screeds, gypsum/calcium sulphate, anhydrite, cement-

based boards, existing tile, or particularly absorbent substrates should be treated with a primer.

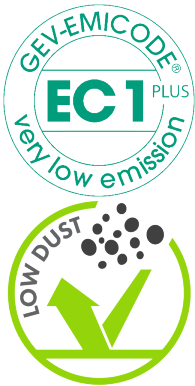
- DO NOT mix with other cement or adhesives.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE® Waterproofing Membrane.

#### Cautions

For more information, consult the safety data sheet.

- Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors.
- For green marble, resin backed tile and stone and other moisture sensitive marbles and agglomerates, use LATAPOXY® 300 ADHESIVE.
- During the winter, protect the work from freezing and from the pedestrian crossing until completely hardened.
- Protect work area from rain or water until fully cured. Contains cement. It can irritate the eyes. May cause sensitization by skin contact. Wear protective gloves and goggles when mixing and applying the product. In case of contact with the skin, wash thoroughly with water. Do not swallow. Avoid breathing dust.
- Keep out of reach of children.

#### 4. TECHNICAL DATA



#### VOC/LEED Product Information

- Émissions dans l'air intérieur: A+
- GEV EMICODE EC1 Plus

#### Applicable Standard

- EN 12004, C2 TE S2
- ISO 9001:2015 Quality Management System

#### Physical Properties

Basis:	Cement, aggregates, additives		
Colour:	white/grey		
Apparent Density:	~ 0,92 g/cm		
Maximum Grain Size:	0,3 mm		
Flammability:	No		
Classification EN 12004-1:	C2 TE S2		
	<b>Value</b>	<b>Requirement</b>	<b>Test Method</b>
Tensile Adhesion Strength	~ 2,1 N/mm <sup>2</sup>	≥ 1,0 N/ mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength after Water Immersion	~ 1,3 N/mm <sup>2</sup>	≥ 1,0 N/ mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength after Heat Ageing	~ 3,1 N/mm <sup>2</sup>	≥ 1,0 N/ mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength after Freeze-Thaw Cycles:	~ 1,4 N/mm <sup>2</sup>	≥ 1,0 N/ mm <sup>2</sup>	12004-2 8,3
Open Time: Tensile Adhesion Strength after 30 min.	~ 2,5 N/mm <sup>2</sup>	≥ 0,5 N/ mm <sup>2</sup>	12004-2 8,1
Transverse Deformation:	~ 5,6 mm	≥ 5 mm	12004-2 8,4
Slip:	~ 0,3 mm	≤ 0,5 mm	12004-2 8,2
Temperature Resistance:	From -30 °C to +90 °C		

#### Working Properties

<b>Consistency:</b>	<b>creamy</b>
<b>Wet Density:</b>	~ 1.40 g/cm <sup>3</sup>
<b>Mix Ratio:</b>	34%-38% (8,5-9,5 lt/25 kg bag)
<b>Application Temperature:</b>	From + 5°C to + 35°C
<b>Pot Life:</b>	~ 3 hours
<b>Open Time:</b>	~ 30 minutes
<b>Maximum Thickness:</b>	~ 20 mm
<b>Time to Foot Traffic:</b>	~ 12 hours
<b>Time to Grouting:</b>	~ 12 hours
<b>Time to Full-Service Conditions:</b>	~ 7 days
<b>Final Hardening:</b>	~ 28 days

(at +23°C, 50% relative humidity)

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

All surfaces should be between 5°C and + 35° C and

structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds.

Fluid cement-based screeds, fluid anhydrite-based screeds, gypsum/calcium sulphate, anhydrite, cement-based boards, existing tile, or particularly absorbent substrates should be treated with a primer such as PRIMER PLUS or PRIMER SUPERIOR.

### Mixing

Use a clean mixing pail with clean, potable water. Do not add other aggregates or hydraulic binders. Mixing ratio: 8.5-9.5 lt of water per 25 kg bag. Add water to pail, then add powder. Mix with a slow speed mixer to obtain a smooth, trowelable consistency.

Allow to slake for 2-3 minutes. Remix briefly before application, without adding any more water or powder. The adhesive should be used within 3 hours. During use, stir occasionally to keep mix fluffy. Do not temper with water.

### Application

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side, in an even, continuous layer. Use the adhesive within the open time. If the mixture is hardening, do not attempt to restore workability by adding water.

Upon completion, protect finished work from rain during the 24 hours following installation. During cold weather, protect finished work for the first 48 hours.

*Note: Use the proper sized notched trowel to ensure the adhesive adheres to the tile, covering at least 95%-100% of the back of tile for indoor installations and 100% for outdoors installations or in areas subjects to heavy traffic.*

*For applications in areas exposed to freezing temperatures or subject to particular mechanical strains (outdoors, paving/flooring subject to heavy loads, materials with uneven thicknesses), the adhesive must be spread over both the substrate and the back of the tile (back buttering/double spreading method).*

*For large format tiles or submerged applications, it is also recommended to use the back buttering/double spreading method.*

### Grouting

Grout installation after a minimum of 12 hours curing time at 23°C and 50% relative humidity. Conditions may change the setting and curing time. Grout with SPECTRALOCK® PRO PREMIUM GROUT, PERMACOLOR® SELECT, or PERMACOLOR® SELECT FINE.

### Cleaning

Clean tools and tile work with water while mortar is fresh.

## 6. AVAILABILITY AND COST

### Availability

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE EUROPE S.r.l.:

+39 059557680

[info@laticreteurope.com](mailto:info@laticreteurope.com)

For on-line distributor information, visit [www.laticrete.eu](http://www.laticrete.eu).

### Cost

Contact LATICRETE EUROPE S.r.l to obtain complete information and cost.

## 7. WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Services for further information. See 10. FILING SYSTEM:

- DS230.13EU: 1 Year Product Warranty (EN)
- DS 230.10EU: 10 Year System Warranty (EN)

## 8. MAINTENANCE

LATICRETE® and LATAPOXY® are products of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending of the cleaning products used.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling or emailing the Technical Service Hotline:

+39 059557680

[technicalservices@laticreteurope.com](mailto:technicalservices@laticreteurope.com)

### Technical and Safety Literature

To obtain technical and safety literature, please visit our website at [www.laticrete.eu](http://www.laticrete.eu).

**Warning**

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® is unable to directly control the installation methods and conditions of products and does not assume any liability arising from their implementation. Those who want to use LATICRETE® products should conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.

LATICRETE® products are covered by a warranty within the limits of what is established by our general conditions of sale and within the limits of correspondence related to technical specifications and applicable certifications, as expressly indicated in the product data sheets, documentation, or applicable technical documentation.

**10. FILING SYSTEM**

Additional product information is available on our website at [laticrete.eu](http://laticrete.eu). The following is a list of related documents:

- DS 230.13EU: 1 Year Product Warranty
- DS 230.10EU: 10 Year System Warranty