



# 345 RAPID S

DS-0810-0621

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

345 RAPID S

## 2. MANUFACTURER

LATICRETE Europe S.r.l. a socio unico

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## 3. PRODUCT DESCRIPTION

345 RAPID S is an ultra pro premium, rapid-setting, multi-use, polymer fortified adhesive for thin-bed and medium bed installations. It is deformable and highly flexible, ideal for large format tile, non-sag wall installations, medium bed build up, and thin-set applications.

### Uses

- For interior and exterior walls and floors
- Over HYDRO BAN or AQUA BARRIER waterproofing systems
- For thin-bed and medium-bed applications, thickness up to 30 mm
- For ceramic, porcelain, glass, mosaics, and non-moisture sensitive stone
- Good for installation of large format tile
- Over existing wall and floor tiles
- For high traffic areas
- For heated substrates
- White version is suitable for light or translucent stone applications

### Advantages

- Single component – just mix with water
- Low dust – safe and easy to use
- Non-sag – ideal for vertical applications
- Ideal for large and heavy tiles
- Rapid setting – ready for grouting in 3 to 4 hours
- Smooth and creamy – easy to use
- Meets performance requirements of EN12004 C2F TE S2

### Suitable Substrates

- Concrete
- Cement Block
- Cement Plaster
- Cement Mortar Bed
- Cement Backer Board (Interior Only)
- Gypsum Wallboard (Interior use only, non-wet areas)
- Existing Ceramic Tile and Stone (Interior Only)
- Gypsum Underlayments (Interior Only)
- Self-Leveling and Patching Compounds (Interior Only)

### Packaging

25 kg bag

### Approximate Coverage / Consumption

- 3.5 kg/m<sup>2</sup> with 8 mm notched trowel
- 7 - 8 kg/m<sup>2</sup> with 15 mm notched trowel

### Shelf Life

Containers are to be kept tightly closed and stored in a dry, cool area. Shelf life is one year in factory sealed containers when properly stored.

### Limitations

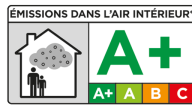
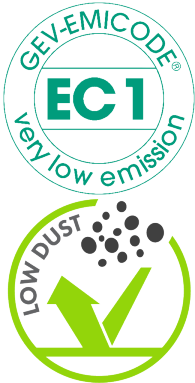
- Fluid cement-based screeds, gypsum, anhydrite, cement-based boards, existing tile, or particularly absorbent substrates should be treated with a primer
- Use white version for white or light-coloured stone.
- DO NOT mix with other cement or adhesives.
- DO NOT use in submerged applications.
- Adhesives/mastics, 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.
- Contains cement and silica sand. 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

#### Applicable Standard

- EN 12004, C2F TE S2
- ISO 9001:2015 Quality Management System

#### Physical Properties

Basis:	Cement, aggregates, additives		
Colour:	White / grey		
Apparent Density:	~ 0,90 g/cm <sup>3</sup>		
Maximum Grain Size:	0,3 mm		
Flammability:	No		
Classification EN 12004-1:	C2F TE S2		
	<b>Value</b>	<b>Requirement</b>	<b>Test Method</b>
Early Tensile Adhesion Strength (6 hours):	~ 0,7 N/mm <sup>2</sup>	≥ 0,5 N/mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength:	~ 2,6 N/mm <sup>2</sup>	≥ 1,0 N/mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength after Water Immersion:	~ 1,1 N/mm <sup>2</sup>	≥ 1,0 N/mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength after Heat Ageing:	~ 3,3 N/mm <sup>2</sup>	≥ 1,0 N/mm <sup>2</sup>	12004-2 8,3
Tensile Adhesion Strength after Freeze-Thaw Cycles:	~ 2,3 N/mm <sup>2</sup>	≥ 1,0 N/mm <sup>2</sup>	12004-2 8,3
Open Time: Tensile Adhesion Strength after 30 min.	~ 0,8 N/mm <sup>2</sup>	≥ 0,5 N/mm <sup>2</sup>	12004-2 8,1
Transverse Deformation:	~ 6,3 mm	≥ 5 mm	12004-2 8,4
Slip:	~ 0,2 mm	≤ 0,5 mm	12004-2 8,2
Temperature Resistance:	From -30 °C to +90 °C		

#### Working Properties

Consistency:	<b>Creamy</b>
Wet Density:	~ 1.40 g/cm <sup>3</sup>
Mix Ratio:	<b>27% - 33%</b> (6,75 lt - 8,25 lt water per 25 kg bag)
Application Temperature:	<b>From + 5°C to + 35°C</b>
Working Time:	~ 30 minutes
Open Time:	~ 30 minutes
Maximum Thickness:	~ 30 mm
Time to Foot Traffic:	~ 3-4 hours
Time to Grouting:	~ 3-4 hours
Time to Full-Service Conditions:	~ 6 hours
Final Hardening:	~ 3 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, gypsum, anhydrite, cement-based boards, or particularly absorbent substrates should be treated with a primer such as PRIMER PLUS

or PRIMER SUPERIOR. Dry, dusty concrete slabs or masonry should be dampened, and excess water swept off.

### Mixing

Use a clean mixing pail with clean, potable water. Do not add other aggregates or hydraulic binders to 345 RAPID S. Mixing ratio:

- **For a flow-bed adhesive**, use approx. 8.25 lt of clean water per 25 kg bag.
- **For wall applications and a thixotropic adhesive**, use 6.75 lt of clean water per 25 kg bag.

Mix with a slow speed mixer to a smooth, trowelable consistency.

Allow to slake for 3-5 minutes. Remix briefly before application, without adding any more water or powder. The adhesive should be used within 30 minutes. 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).*

### Grouting

Grout installation after a minimum of 3-4 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. a socio unico:

+39 059 535540

[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. a socio unico 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:

+39 059 535540

[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 (Europe)
- DS 230.10EU: 10 Year System Warranty (Europe)