



# 8510 BONDING ADMIX

DS-2494-0422

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

8510 BONDING ADMIX

## 2. MANUFACTURER

LATICRETE Europe S.r.l. a socio unico

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## 3. PRODUCT DESCRIPTION

8510 BONDING ADMIX is a concentrated latex admix designed to be used with 211 POWDER to create a high performing repair, levelling and smoothing compound.

When mixed with 211 POWDER, it creates an extremely workable, trowel-applied compound that can be installed from 1 to 5 mm in thickness. This two-component smoothing compound can be used over steel and is ideal for use in ships as well as pools before waterproofing.

The 8510 BONDING ADMIX + 211 POWDER system is also ideal for use as substrate preparation before the installation of LATICRETE resinous finishes.

### Uses

- Designed for use with 211 POWDER as a high-performance smoothing mortar on ships, in pools before waterproofing, or as substrate preparation before the installation of LATICRETE resinous finishes
- Crack resistant, weather resistant pool plaster

- High strength, weather resistant cement-based patching and smoothing compounds
- High strength masonry mortar
- Slurry bond coat for non-absorbent substrates
- Fortifier for thin-set mortars to increase bond strength and flexibility

### Advantages

- Versatile — one product for interior and exterior applications
- Economical — super concentrated, just dilute with water
- High strength — improves adhesion, bond and compressive strength of Portland cement mixes
- Improved workability and easy to use
- Makes mortars and grouts more resistant to most common chemicals
- No damp curing required — cures even in desert climates
- Low VOC contents, better for you and better indoor air quality

### Suitable Substrates

- Concrete
- Cement Plaster/Render
- Cement Mortar/Render
- Existing Ceramic Tile and Stone
- Glazed Ceramic
- Cement Backer Board (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Terrazzo
- Metal

### Packaging

- 3 kg in 5.5 lt container; 48 containers per pallet
- 20 kg pail; 36 pails per pallet

### Approximate Coverage / Consumption

0.3 - 0.5 L per m<sup>2</sup> of latex per mm of thickness when mixed with 211 POWDER

*(1 kg of latex = 1 L of latex)*

## Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for five (5) years if stored at temperatures >32°F (0°C) and <110°F (43°C).

## Limitations

- DO NOT let product freeze, keep it in a protected place above +5°C.
- DO NOT bond to particle board, luan, Masonite®, or hardwood surfaces.
- Only use 8510 BONDING ADMIX at ambient and substrate temperatures between +5°C and +35°C.
- DO NOT dilute 8510 BONDING ADMIX when using as a smoothing mortar over steel or existing glazed tiles; use pure with 211 POWDER.
- 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 .

## Cautions

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Wait 14 days after the final grouting period before filling water features with water at 70°F (21°C).
- Keep out of reach of children.

## 4. TECHNICAL DATA



## Applicable Standard

- EN 13813
- IMO-MED certification
- ISO 9001:2015 Quality Management System

## Physical Properties

When mixed with 211 POWDER

Classification EN 13813:	CT C45-F15
Reaction to Fire:	Bfl S1
Basis:	Cement, latex, aggregates, additives
Colour:	Grey & white
Maximum Grain Size:	0.5 mm
Compressive Strength (7 days):	~ 45,0 N/mm <sup>2</sup>
Compressive Strength (28 days):	~ 45,0 N/mm <sup>2</sup>
Flexural Strength (28 days):	~ 15,0 N/mm <sup>2</sup>
Tensile Adhesion to Concrete:	~ 2.0 N/mm <sup>2</sup>
Tensile Adhesion to Sheet Metal:*	~ 1.4 N/mm <sup>2</sup>
Temperature Resistance:	-30°C to +90°C

\*when 8510 BONDING ADMIX is used pure, without diluting with water

## Working Properties

When mixed with 211 POWDER

Consistency:	Plastic or fluid
Mixing Ratio with Pure Latex:	23% (5.75 kg of latex)
Mixing Ratio with Water Diluted Latex:	18-20% (4.5 - 5 kg of liquid)
Application Temperature:	+5°C to +35°C
Working Time:	~ 25-30 minutes
Application Thickness:	2-5 mm
Time to Foot Traffic:	~ 6-8 hours
Time to Tile Install:	12 - 24 hours
Time to Installation of Resinous Finishes:*	> 24 hours

(at 23°C and 50% R.H.)

\*subject to residual moisture check < 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

### Substrate Preparation

All surfaces must be structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers, or curing compounds. Cement screeds, renders, and plasters must be properly cured (at least 28 days for cement screeds, at least one (1) week per cm of thickness for plasters).

Expansion joints shall be provided through the finishes from all construction or expansion joints in the substrate.

Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Screeds and cement mortar beds that are particularly absorbent and/or subject to being overheated by sun must be saturated (without leaving water on the surface). Installation may be made on a damp surface.

### **8510 BONDING ADMIX as a Slurry Bond Coat (Mixed with Cement)**

Add cement to 8510 BONDING ADMIX and mix until a smooth, soft wet slurry consistency is obtained. Apply the slurry bond mixture to the substrate using a brush or the flat side of a trowel, applying an even layer with a thickness ranging from 3 - 6 mm. Then apply the subsequent product, such as 2261 SCREED, to the slurry bond coat while it is still wet.

*Note: Slurry bond coats made with 8510 BONDING ADMIX are ideal for non-absorbent substrates, such as steel or existing tiles. For absorbent substrates, we recommend using 4237 LATEX ADDITIVE to create a slurry bond coat.*

### **8510 BONDING ADMIX as a Smoothing & Levelling Compound (Mixed with 211 POWDER)**

For use as a repair, smoothing and levelling compound, use approximately 4.5-5.75 kg of liquid per 25 kg of 211 POWDER.

Dilute 8510 BONDING ADMIX with water, using a mix ratio of 3 kg of 8510 BONDING ADMIX with 1.5 - 2 kg of water depending on the desired consistency (the 3 kg 8510 BONDING ADMIX is packaged in a 5.5 L tank and includes a fill guideline).

*Note: For application on steel (i.e. in the marine or naval sector) or existing glazed tiles, do not dilute 8510 BONDING ADMIX; use pure with 211 POWDER. Use 5.5-5.75 kg of latex with 25 kg of 211 POWDER.*

Depending on the application, mix diluted or pure liquid admixture with the powder in a clean pail using a low speed mixer/drill for about 2 minutes. Let the mix slake for 2 minutes, then briefly mix again. The consistency of the mixture can vary from plastic to semi-fluid (but never fluid liquid). If necessary, add additional admixture or powder to adjust the mortar consistency.

Mix the mortar every 10-15 minutes during use. Apply the mortar within 20-25 minutes (at 23°C and 50% R.H.). Working in sections about the width of your arm spread, use the flat side of a trowel to apply the mortar to the substrate pressing firmly to work it into the surface, between 1 and 5 mm in thickness.

### **Finish Installation**

- **For tile or stone:** Allow smoothing compound to cure for a minimum of 6-8 hours before installing tile or stone finishes (at 21°C and 50% RH).
- **For resinous finishes:** When used below resinous finishes, sand the smoothing compound between 12

and 24 hours after application. Allow smoothing compound to cure for a minimum of 24 hours and verify readiness before installing resinous finishes (measured moisture content must be less than 3%). Refer to *TDS 450: Installation Guideline for Installing Resinous Finishes over Existing or Worn Substrates* for more details on installing resinous finishes over the 8510 BONDING ADMIX + 211 POWDER system.

**Cold Weather Note:** *The setting of Portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. Do not set tile when surface temperature is below freezing or when substrate is frozen.*

**Hot Weather Note:** *The evaporation of moisture in Portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in hot temperatures.*

### **Cleaning**

Clean tools and tile work with water while mortar and mixture 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@laticreteeuropa.com](mailto:info@laticreteeuropa.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:

- DS 230.13EU: 1 Year Product Warranty

## **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
- DS 2390: 211 POWDER Product Data Sheet
- DS 2301: 4237 LATEX ADDITIVE Product Data Sheet
- TDS 450: Installation Guideline for Installing Resinous Finishes over Existing Worn Surfaces/Substrates