



# AQUA BARRIER RDY TOP

DS-65330-0524

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

AQUA BARRIER RDY TOP

## 2. MANUFACTURER

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## 3. PRODUCT DESCRIPTION

AQUA BARRIER RDY TOP is a high flexible polymer-modified single-component waterproofer with a crack-bridging ability that can be used for under-tile waterproofing in accordance with EN 14891 CM O1P. AQUA BARRIER RDY TOP, classified EN 1504-2 coating (C) in accordance with principles PI, MC and IR and is used for protecting concrete, reinforced concrete and cement-based materials against the penetration of water and CO<sub>2</sub>. Resistant to UV radiation.

### Uses

- For indoor and outdoor use, also in view
- Waterproofing of the backings before laying tiles and natural stone in: showers, balconies, terraces and swimming pools
- Waterproofing and flexible protection of hydraulic works made of concrete, such as: irrigation canals, tubs, tanks, basins, eaves
- Concrete protection from the effects of de-icing salts, freeze-thaw attacks and carbon dioxide.

- Internal waterproofing of counterthrust walls
- As protection for concrete earth retaining walls

### Advantages

- Internal waterproofing of counterthrust walls
- As protection for concrete earth retaining walls
- Single-component — to be mixed with water
- Easy to apply — applicable with a spatula, brush or roller
- Non-drip, for a perfect vertical application
- Does not require using reinforcement mesh
- Resistant to negative hydraulic pressure  $\leq 2.5$  bar
- Prevents carbonation of concrete
- Anti-fracture protection, for cracks
- Can be inspected, resistant to light abrasion
- Suitable for the containment of potable water for human consumption

### Suitable Substrates

- Concrete
- Screed and Cement-Based Mortar
- Cement-Based Plaster
- Blocks of Concrete
- Concrete and Brick Masonry
- Concrete Panels
- Fiber-Cement Panel
- Old Tiles and Stone (After light smoothing)

### Packaging

20 kg per bag; 48 bags per pallet

### Approximate Coverage / Consumption

1.2 kg/m<sup>2</sup> per mm of thickness

### Shelf Life

Twelve (12) months in closed original packing raised off the ground in a cool, dry place. High humidity will shorten the shelf life of the bagged product.

### Limitations

- Always apply at least two coats of product.
- Make sure to apply the following ones when the previous ones are dry.
- DO NOT apply a thickness greater than 2 mm for a single coat.
- DO NOT apply on: metal, wood or bituminous sheaths.

- DO NOT apply with temperatures below +5°C.
- Avoid applying in direct sunshine.

### Cautions

- Consult the SDS for additional information on safety.
- In areas with high humidity and poor ventilation (e.g., tanks and cisterns), the time for the applied product to dry may increase.
- Protect from rain for a time of no less than 48-72 h after application.
- Contains cement. Can irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In the event of contact, rinse with plenty of water.
- Keep well out of the reach of children.

## 4. TECHNICAL DATA

### Applicable Standard

- EN 14891 CM P
- iso 9001: 2015 Quality Management System

### Physical Properties

Classification according to EN 14891	CM O1P	
Contents:	cement, aggregate, additives	
Color:	gray	
Apparent density:	1,500 g/dm <sup>3</sup>	
Maximum grain size:	0.2 mm	
Flammability:	no	
	Value	Requirement
Initial adhesion:	>2.0 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>
Adhesion after immersion in water:	>1.5 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>
Adhesion after thermal aging:	>0.8 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>
Adhesion after freeze-thaw cycles:	>0.7 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>
Adhesion after immersion in lime water:	>1.5 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>
Adhesion after immersion in chlorinated water:	No penetration	No penetration
Resistance at a positive pressure of 1.5 bar for 7 days:	No penetration	No penetration
Resistance at a negative pressure of 2.5 bar for 7 days:	No penetration	No penetration
Crack-bridging ability at ambient temperature:	≥ 0.75 mm	≥ 0.75 mm
Crack-bridging ability at a temperature of -5°C:	≥ 0.75 mm	≥ 0.75 mm
Resistance at temperature (after setting):	from -30°C to +70°C	

Classification according to EN 1504-2	PI-MC-IR principles	
	Value	Requirement
Permeability to CO <sub>2</sub> :	>200m	>50m
Permeability to water vapor:	Class I (impermeable)	Classes from I to III
Permeability to water liquid/absorption:	<0.005 kg*m <sup>2</sup> *h <sup>-0.5</sup>	<0.1 kg*m <sup>2</sup> *h <sup>-0.5</sup>
Adhesion after standard curing:	>2.2 MPa	>1.5 MPa
Adhesion after freeze/thaw cycling:	>1.5 MPa	>1.5 MPa
Adhesion after thunder-shower cycling:	>1.5 MPa	>1.5 MPa
Adhesion after thermal aging:	>1.5 MPa	>1.5 MPa
Inverse hydrostatic pressure resistance:	>250KPa	3 classes (50,100 and 250 KPa)

### Processing characteristics

Mixture consistency:	creamy
Specific weight of the mix:	~ 1.50 g/cm <sup>3</sup>
Mixing ratio:	24%-28% (4.5-5.2 l per 20 kg-Sack)
Workability time:	~ 60 min
Application temperature:	from +5°C to +30°C
Wait for applying 2nd coat:	~ 4 hours
Wait for laying ceramic tiles:	~ 24 hours
Maximum thickness per coat:	~ 2 mm
Total thickness (dry):	~ 3-4 mm
Total minimum thickness (dry):	~ 2 mm

(+23°C / 50% R.H.)

These technical data were measured in standard laboratory conditions and may be subject to change without notice. The actual performance of the product depends on the applicative conditions of the site, the method of installation used and the type of covering.

*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

### Preparing the backings

The backing must be solid, flat, compact and have no parts showing signs of flaking or dust, grease, paint, wax, rust or efflorescence. With cast-in-place concrete, remove the smears of concrete laitance.

Screeds and concretes must be cured properly, 30 days for screeds and 3 months for concrete.

In the warm season, before applying, wet the backing with water and remove the excess with a liquid extractor to obtain a saturated backing with a dry surface. Old ceramic floors need to be degreased by using the alkaline detergent STONETECH KLENZAL CLEANER and subjected to light abrasion to roughen them.

On outer surfaces, always observe the active expansion joints already in the substrate applying WPM TAPE onto them.

All erected parts, such as: columns, stairways, wall/wall and wall/floor corners must be treated with WPM TAPE or WPM TAPE PLV before applying AQUA BARRIER RDY TOP.

WPM TAPE can be applied by using AQUA BARRIER RDY TOP. Note: Do not use WPM TAPE PLV for applications in continuous immersion in water such as swimming pools or tanks.

### **Mix and application**

During the summertime, do not keep bags of AQUA BARRIER RDY TOP in direct sunlight before use. Pour 4.8-5.2 liters of clean water into a clean container and then add the AQUA BARRIER RDY TOP powder. Mix with a mechanical mixer at low speed to obtain a homogeneous mixture with no lumps. Do not add anything to the mix other than the water. If the mix has already set, do not try and use it by adding water, instead dispose of it and make another mixture.

Apply the mortar to the backing with a smooth steel spatula, pressing firmly to ensure it adheres to the backing or a brush or a short pile roller. Apply the second layer of product after the first one has sufficiently dried, approximately 4 hours. Do not exceed 2 mm for each layer. Using AQUA BARRIER NET, added to the first fresh coat of product, ensures total coverage of the substrate once the second coat of product has completely covered the mesh. Wait approximately 24 hours after applying AQUA BARRIER RDY TOP before laying tiles.

For laying tiles, use a class C2 or higher adhesive and make a wide joint (at least 3 mm).

## **6. AVAILABILITY AND COST**

### **Availability**

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Europe S.r.l. a socio unico:

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[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:

## **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.