

# AQUASIL SMART

Flexible liquid membrane for internal and external waterproofing applications.

## Description

Ready to use, very fast drying flexible liquid membrane for internal and external waterproofing applications. Ideal for waterproofing surfaces prior to installation of ceramic tiles, stone, mosaic covering etc. It is applied on balconies, terraces, bathrooms etc and in wet areas in general.

## Application examples

The material is used to form a waterproofing membrane before applying ceramic, stone and mosaic coating in:

- balconies
- terraces
- bathrooms
- showers and shower cubicles
- laundry rooms
- saunas and damp environments in general.
- Underfloor heating

## Advantages

- Ready to use
- Very quick drying. Resistance to water in about 1 hour after the first layer is applied and 3 hours after the second layer.
- Very elastic, at 23 °C it has 3.2mm crack bridging ability without reinforcement.

## Technical Characteristics

Colour : Cyan

Density (dry): between 1,3 Kg/L

Minimum coat thickness (2 coats):  $\geq 0,8$  mm

Application temperature:  $+5$  °C to  $+35$  °C

Initial Bond strength:  $\geq 0,5$  N/mm<sup>2</sup>

Bond strength after water contact:  $\geq 0,5$  N/mm<sup>2</sup>

Bond strength after heat ageing:  $\geq 0,5$  N/mm<sup>2</sup>

Bond strength after freeze-thaw cycle:  $\geq 0,5$  N/mm<sup>2</sup>

Bond strength after contact with lime water:  $\geq 0,5$  N/mm<sup>2</sup>

Bond strength after contact with chlorinated water:  $\geq 0,5$  N/mm<sup>2</sup>

Crack-bridging ability at standard conditions:  $\geq 0,75$  mm

Crack-bridging ability at  $-5^{\circ}\text{C}$ :  $\geq 0,75$  mm

Impermeability to water under pressure: No penetration

Waiting time between layer application: appx 1 hr (when dry to touch)

Waiting time before laying coating: after 3-4 hours

Light pedestrian traffic: after 3 hours

Complete drying of 1 mm thick layer: after 12 hours

## Substrate preparation

Substrates must be cured, stable, clean and dry surfaces (rising moisture  $<3\%$ ). Remove loose or detached fragments, dirt, oil, dust as well as any other substances which could compromise bonding. Seal off and repair any major voids and gaps. Smoothen the surface by breaking pointed projections and fill all voids with suitable repair mortar.

## Substrates

- concrete
- cementitious and other screeds
- plaster boards
- Gypsum boards
- Chipboards
- existing coating in ceramic, terrazzo and stone
- cementitious render

## Instructions for use

Apply the product using a long-haired roller, brush or trowel, in two even layers (approx. 0,4 mm per layer). Wait until the first layer is dry, before applying the second layer in a cross fashion to the first layer (app 1 hour at  $23^{\circ}\text{C}$  and 50% humidity) and substrate having lower than 3% residual humidity). The final thickness of the two layers must be at least 0,8mm, in order to create a continuous and flexible membrane. Make sure during installation that there are no interruptions in the membrane, due to substrate imperfections. The membrane must be protected from bad weather conditions until completely dry.

When using Aquasil Smart as an anti-fracture membrane over cracked substrates, embed reinforcement fabric into the first layer while still fresh, pressing it down with a spiked roller. Once the layer is

dry, apply a second layer to fully encapsulate the reinforcement. Note that drying times may increase with added thickness.

Aquasil Smart is suitable for application beneath tile installations. Tiles (ceramic, stone, or mosaic) can be installed 4 hours after the second layer has been applied, at +23°C and 50% humidity, using a compatible cementitious adhesive based on the tile type and surface. For outdoor balconies and terraces, use an adhesive with at least a C2S1 rating; for indoor applications, a minimum C2 class adhesive is recommended. Grout tile joints with either a cementitious or epoxy grout.

Clean all tools with water immediately after use, while the product is still fresh.

### Product specifications

It is classified as Dispersion liquid-applied water impermeable with improved crack bridging ability at low temperature and resistant to contact with chlorinated water for all external installations and swimming pools beneath tiles (DM 01P) according to EN 14891.

### Consumption

1 Kg/m<sup>2</sup> for 2 layers (1,3 Kg/m<sup>2</sup> for 1mm thickness).

### Storage

In dry areas, protected from ice and high temperature for 24 months from the date of production and in the original sealed packaging.

### Packages

23,5 Kg (4,75 US gal).

### Precautions & safety

The product is not considered dangerous according to current regulations regarding the classification of mixtures. However, it is recommended to wear protective gloves and goggles and to take the usual precautions for handling chemicals. For further information please refer to the latest version of the Material Safety Data Sheet (MSDS).

### Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information

set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

### Other information

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