

# BAU S11

**Brushable cement-based mortar/water barrier for easy, full waterproofing of basements, tanks, tunnels, foundations, manholes, canals etc.**

## Description

Osmotic, brushable cement based sealing slurry for complete and permanent waterproofing of concrete, brickwork, plaster and generally mineral construction materials. The special additives are transported inside the concrete via the osmosis process and through its pores and capillaries cracks. It is ideal for basements, tanks, tunnels, foundations, canals, etc. BAU S11 guarantees no water penetration under both positive or negative hydrostatic pressure, while at the same time the surface stays vapor permeable. It is suitable for direct contact with drinking/potable water. It can be backfilled, covered with tiles, marble, stone or other covering material, as well as plastered or left as is and act as finish coat.

## Features

- The action lasts throughout the concrete's life
- Offers permanent waterproofing under both negative and positive hydrostatic pressure
- It is vapour permeable
- Protects concrete and reinforcement from carbonation and other environmental factors
- Suitable for tanks with potable water
- It can be backfilled, tiled or apply any other cladding, as well as plastered or stay as is.
- Easy and cost effective application

## The material is used for sealing the following surface types:

- basements
- cellars
- floors
- tanks
- tunnels
- foundations
- wells
- gullies
- old and new structures
- brick or cement block structures
- planters
- tile roof substrates
- behind wood siding
- elevator shafts, etc

May be backfilled, covered with tiles, marble, stone or other covering, may be plastered or left as a finish coat



## Substrate preparation

Provide stable surfaces. Remove loose or detached fragments, dirt, oil, dust etc. Seal off and repair any major voids and gaps. Smoothen the surface by breaking pointed projections and fill all voids with repair mortar. Repairs and evening - out of surfaces shall be carried out using suitable products from the BAUSKIN range. In case materials are applied in interior basements, provide gutters in corners, made with suitable repair mortar (e.g.BAU R2).

## Substrates

- concrete works
- plaster work
- plaster board
- cement board
- mosaic
- cement screeds
- cement blocks
- engineered or natural stone etc

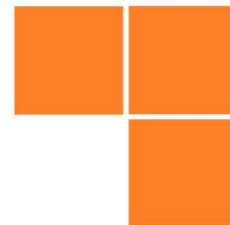
## Highly absorbent substrates

For surfaces exposed to extreme solar radiation and during extreme summer heat or in case substrate is excessively absorbent, we recommend one coat of primer (BAU PR1 or BAU L40), suitably thinned with water) or slight wetting of substrates preventing still water spots, to reduce water absorption and to avoid quick mortar dehydration.

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## Mixture preparation

The material must be prepared in a suitable container; first pouring approximately  $\frac{3}{4}$  of the required quantity of water and then gradually add the contents of the bag, stirring at the same time by electric agitator operating at low rpm. Then add water until a uniform mixture with the required makeup is obtained. The quantity of mixing water written on the surface is only exemplary. You may add a commensurate quantity of water for more or less thixotropic composition, depending on the intended application (applied by spackle knife or flat brush). Adding much more water than the prescribed quantity ( $>0.5$  l) may result in reducing the strength of the mortar. We recommend regular stirring without adding water.

## Instructions for use

Apply the product using roller brush, hard brush or spackle knife cross wise in two or more coats. The second coat can be applied on top of the first one after it has become sufficient soaked, before complete drying. Where required, apply a third coat in the same way. Each coat may not be thicker than 1-2mm. Ensure that the product penetrates and seals off all voids. In case of filling surfaces with demolition debris, allow complete drying of the product so that sufficient strength is developed, at least for 3 days. Application is not recommended under extreme solar radiance (temperature greater than 35°C) or rainfall, or in periods when temperature is expected to drop below zero. During the summer season, keep surfaces damp by lightly spraying water for a couple of days after application. Clean application tools with water immediately after use.

## Consumption

2-4 kg/m<sup>2</sup>

## Storage

Preferably in shady and roofed locations, low in moisture. Protected against ice, high temperature and exposure to sunlight for at least 12 months.

## Packages

25kg bags.

## Technical Features

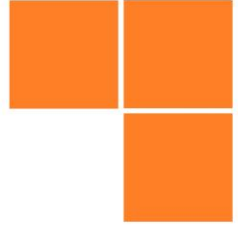
<b>Form:</b> cement-based dry mortar
<b>Colour A+B:</b> grey
<b>Mortar density:</b> 1,4-1,6 kg/L
<b>Working time in the mixing container:</b> at least 70 minutes
<b>Maximum coat thickness (2-3 coats):</b> ≤5 mm
<b>Minimum coat thickness (2-3 coats):</b> ≥2 mm
<b>Earth filling:</b> after 3 days
<b>Ready to walk:</b> after 24 hours
<b>Application temperature:</b> +5°C to +35°C
<b>Exposure to rain:</b> after 3 hours
<b>Compressive strength</b> 25 N/mm <sup>2</sup>
<b>Flexure strength:</b> ≥6 N/mm <sup>2</sup>
<b>Water vapor permeability:</b> class II
<b>Bond strength:</b> ≥ 2 N/mm <sup>2</sup>
<b>Water penetration under positive hydrostatic pressure (≥ 5 bar):</b> No penetration
<b>Water penetration under negative hydrostatic pressure (1,5 bar):</b> no penetration
<b>Water permeability under positive hydrostatic pressure: (EN 12390-8, 3 days &gt; 5 bar)</b> No penetration

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## Precautions & safety

The product contains cement and is classified as irritant. No special precautions are necessary for product application except for standard precautions applicable to all construction operations i.e. using gloves and goggles; preventing prolonged skin contact; etc. In case of eye contact, immediately wash with plenty of water and seek medical advice if necessary. Collect empty bags and plastic covers and dispose in refuse bins designated for this purpose. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product

## Notes

Technical details, properties, recommendations and information on BAUSKIN 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 used 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 here under. Product users are advised to refer to the latest revision of the technical manuals available.

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