

Technical Datasheet

BAU S10

Professional, Elastic 2-part Sealing System for Roofs and Surfaces Exposed to Standing Water

Description

High-technology cement based sealant, easy and quick spreading. Allows thorough, elastic sealing on surfaces subject to contraction- expansion effects; increased deformation; intense sunlight; and extreme weather changes. Guarantees complete waterproofing under positive or negative hydrostatic pressure above 15 atm/DIN 1048. Suitable for drinking water tanks and surfaces coming into contact with foodstuffs

Features and advantages

- Exceptional sealing under hydrostatic pressures exceeding 15 atm /DIN 1048.
- Full elastic sealing of surfaces subject to expansion and contraction. High deformations, intense sunlight and extreme changes (conditions) of the environment.
- Crack-bridging.
- Excellent compatibility/adhesion with application substrates, even without priming.
- Protection of concrete from carbonization.
- Suitable for potable water tanks.
- Does not corrode steel in concrete.
- Can be covered with soil, coated with tiles, marbles, stones, or other covering, plastered or remain unchanged.
- Increased lifetime (also on terraces)
- Easy and low cost application
- Increased transpiration
- Reflective barrier for solar radiation

Application examples

Substrates

- concrete works
- plaster
- plaster board
- cement board
- wood
- metal
- mosaic
- cement screeds
- cement blocks
- natural stone etc.

The material is used for sealing the following surface types:

- roofs
- basements
- balconies
- flowerbeds
- swimming pools
- bathrooms
- inverted roofs
- cellars
- floors
- tanks
- tunnels
- foundations
- wells
- gullies
- old and new structures
- brick or cement block structures
- planters
- tile roof substrates

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Substrates preparation

Provide clean and stable surfaces, completely dried and free from shrinkage tendencies. 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 grooves in corners, made with suitable repair mortar (e.g. **BAU R2**). In cases of waterproofing the bathroom, balcony or roof areas with BAU S10, it is recommended before application to install the **BAU BF** butyl tape at the corners between the floor and wall (vertical surfaces), without creating a couloir.

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 L40**, suitably thinned with water) or slight wetting of substrates preventing still water spots, to reduce water absorption and to avoid quick mortar dehydration.

Mixture preparation

The 2 parts are supplied in cans, ready for mixing. Stir well all component A to be used (mortar) into component B (emulsion) using electric agitator operating at low rpm. You may add up to 5% water for a less thixotropic composition depending on application (applied by spatula or brush). Adding more water than the prescribed ratio may result in reducing the final strength of the mortar. We recommend regular stirring without adding water.

Instructions for use

Apply the product using roller brush, hard brush or trowel 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, at least for 5-10 hours yet 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 the surfaces intended for application of **BAU S10** must be fitted with tiles, we recommend using tile adhesive for non-absorbent substrates. Finally, if surfaces are to be plastered, we recommend making the plaster elastic using **BAU L40** improver emulsion. Application is not recommended under extreme heat (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.

Notes

The ready for use product **BAU S10** presents a maximum volatile organic content < 140 gr/l, a value that conforms to Directive 2004/42/EC (Annex II table A) for product subclass I, type Y.

Consumption

2,5 -4 kg/m² (1,3 kg/m²/mm)

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Technical Features

Form:

Component A: cement-based powder; component B: emulsion

Colour A+B:

white

Mortar density:

1,2kg/L

Working time in the mixing container:

at least 70 minutes

Maximum coat thickness (2-3 coats):

≤5 mm

Minimum coat thickness (2-3 coats):

≥2 mm

Earth filling:

after 3 hours

Ready to walk:

after 24 hours

Application temperature:

+5°C to +35°C

Temperature resistance:

-30°C to +90°C

Compressive strength (EN 196-1)

28 days ≥ 19 N/mm²

Bending strength (EN 196-1):

28 days ≥ 9 N/mm²

Water vapor permeability (EN ISO 6272):

Sd = 0,8 (class I Sd < 5m)

Bond strength:

≥ 1,5 N/mm²

Static crack bridging (EN 1062-7):

A4 (1,25 – 2,5 mm)

Dynamic crack bridging (EN 1062-7):

B2 (1000 rounds, f=0,03 Hz, Wo = 0,15mm, Wu = 0,10mm, change crack 50µm)

Water permeability, capillary absorption according to EN 1062-3 (kg/m² · h^{0.5})

W < 0,1

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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

Containers (A+B) 16kg, 35 kg

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

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