

BAU L40

High-density, multi-purpose copolymeric emulsion specially designed for multiple improvements and enhancements of cement mortar properties.

Description

Enhancing additive for all structural mortars. Provides adhesion and flexibility. Enhances mechanical strength and prevents cracks.

Typical advantages

- Adhesion improver for all substrates
- Increased flexibility
- Makes mortars water impermeable.
- Eliminates shrinkage and prevents resulting cracks
- Improves plasticity, water retention and workability of fresh mixtures.
- Improvement of mechanical resistance
- Concrete and mortar waterproofing
- Increased resistance to freezing - thawing cycles
- Allows the construction of ultrathin coatings

Enhancement of resistance to petroleum products, acids, alkali and other chemical agents

Application examples

- Waterproof, high strength plasters
- Floors
- Binding coat between mortars and concrete
- Material suitable for caulking decorative stone
- Mortars for restoring damage to cement mortars concrete
- Waterproof cement screeds
- Protection of the surface of fresh concrete from dehydration
- Reinstatement of concrete surfaces (pillar corner edges; recesses and correction of gradients; reinstatement of cracked plaster; etc)
- Masonry mortars
- Adhesives for stones; tiles; insulating slabs; and glass bricks
- 100% waterproofing of plaster board
- Surface mortar penetration to improve primer properties

Mixture preparation

It is recommended that for preparing mixtures where **BAU L40** shall be added. In this case, first stir liquids (**BAU L40**–water) and then solid substances (cement - sand - aggregates). Please consider that working time of mortars containing **BAU L40** is significantly prolonged while setting time is considerably increased.



Instructions of use

Shake before use. **BAU L40** is used for partial or total replacement of the mixing water used in the mortar. Proper mixing ratios between **BAU L40** and water are a function of substrate; application type; and the intended properties of mortars. Generally, thinning with water to ratios higher than 1:5 is not recommended. Application is carried out manually using trowel; emulsion brush; standard brush or mechanically. Avoid spreading mortar containing **BAU L40** when temperature is below 5°C or is expected to drop below 5°C in the coming 24 hours. Cement mortars containing **BAU L40** require maintenance by wetting the surface (especially under wind or high temperature conditions) to avoid accelerated water evaporation. Clean application tools with water immediately after use

Adhesives and mortars additive

Add **BAU L40** in the mixing water, 1:1 up to 1:2 ratio or approximately 2.5-3.0 kg per 25 kg bag depending on the desirable result.

Repairing mortars

For the preparation of concrete repair mortars (repairs in corners, steps, large cracks, grooving etc.)

Ratio:

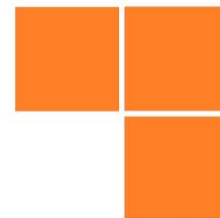
Cement: sand = 1: 2 up to 1: 4

+

BAU L40: water= 1: 1 up to 1: 4

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Application on surfaces where substrate has been prepared accordingly. In special cases with smooth substrates or surfaces with high mechanical stresses it is recommended to apply a bonding layer of BAU L40

Bonding layer between mortars and concrete

A) Undiluted

As a bonding layer between old and new mortar or concrete apply BAU L40 on horizontal or vertical surfaces with brush undiluted and then apply the new mortar while BAU L40 is still fresh.

B) As a bonding layer as described below depending on the application:.

1) For horizontal surfaces

Cement: sand = 1 : 1 (A)

+

BAU L40: water = 1: 1 (B) (A)+(B)= 2:1

The mixture is then applied by brush at 2mm thickness. The application of the new mixture is applied while the layer is fresh.

2) For vertical surfaces

Cement: sand = 1 : 1 (A)

+

BAU L40: water = 1 : 1 (B)

(A)+(B) = 4:1 for increased thixotropy and it is applied as a rough cast. The new layer of mortar or concrete is applied after the hardening of the bonding layer.

Water-resistant screeds

After a bonding layer of BAU L40 apply 2 coats of screeds consisting of

Cement : sand = 1 : 2 up to 1 : 3 (A)

+

BAU L40: water = 1: 1 up to 1 : 2 (B)

(A)+(B)= 4 :1

As a result, waterproofing of tanks and basements even for negative hydrostatic is achieved.

Thin layer renders

The combination of fine granulometry sand and BAU L40 allows the production of renders for extra thin application (up to 1mm) with exceptional end strength.

Water resistant and high strength renders

For waterproof elastic renders add BAU L40 to the mixing water as follows.

BAU L40: water = 1 : 1 up to 1 : 4

Improvement of water paints

Approximately 1 lit. of BAU L40 is added per 10 litres of ready-to-use water paint to increase end strength for indoor and outdoor use.

Concrete surface protection

Apply BAU L40: water 1:2 by brush or spay gun once concrete starts to cure and if there is no stagnant water on the surface.

Technical features

Form:
liquid emulsion

Hue:
white

Density:
1 kg/lit

PH:
9

Packaging

5, 20 lit in cans,

Storage

Preferably in shady and roofed locations, low in moisture, protected against ice, high temperature and exposure to sunlight for at least 18 months.

Health and Safety

Drinking **BAU L40 is prohibited**. We recommend wearing gloves and safety goggles. In case material comes in contact with skin or eyes, immediately rinse with plenty of water. In case irritation persists, consult your doctor. Avoid contact with skin or eyes.

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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