

## BAUPOX® 100 ST

Universal, colourless epoxy resin for technical applications

### PRODUCT DESCRIPTION

**BAUPOX® 100 ST** is a two-component, transparent epoxy resin based on bisphenol A/F with no solvents added.

### USE

- Impregnation and grounding of seasoned/stabilized concrete foundations and cement screeds.
- Making levelling layers and polymer screeds.
- Making base layers in systems with granulate from natural or dyed quartz aggregate.
- Anchoring of elements in various types of foundations/bases/substrates

**CAUTION:** do not use for finishing layers.

### FOUNDATION

Concrete foundation must be stable and of proper carrying capacity for the target static and dynamic loads – concrete of class no less than C20/25 of minimal stripping strength 1,5 N/mm<sup>2</sup>. The acceptable humidity of the foundation cannot exceed 4% in terms of weight.

The foundation must have a hermetic horizontal insulation protecting it from moisture sucked up through capillary tubes.

Foundations which are to be protected with epoxy layers must be clean and absorbent. Cement wash, dirt of all kinds and old protection layers should be removed mechanically by grinding, shot blasting or milling. When renovating old epoxy floors, their adherence to the foundation must be absolutely checked (no less than 1.5 N/mm<sup>2</sup>) and the surface degreased and tarnished mechanically.

### CONDITIONS OF APPLICATION

- Temperature of the foundation – no less than +10°C
- Relative humidity of the air – max. 75%

**NOTE:** Special attention should be paid that the temperature of the foundation be at least 3°C over the dew point temperature. Rooms in which the works are performed must be ventilated.

### MIXING

BAUPOX® 100 ST is provided in original boxes where the amount of component A (resin) corresponds chemically to the amount of component B (hardener). Depending on the final use, the material should be prepared in proper amounts, unconditionally observing the indicated weight proportion.

After adding component B to component A mix it all thoroughly with a slow-speed mixer (max.400 revolutions per minute) until a homogenous mixture is achieved (about 3-5 minutes). In case of preparing repair, levelling or base mortars, mineral filler should be added to the resin during mixing in the amount appropriate for the given use.

### PROCESSING SUITABILITY

At the temperature of 20°C and at the relative air humidity of 60-70%, the material remains suitable for use for 25-30 minutes after mixing.

- Increasing the temperature shortens the setting time of the resin and lowers its viscosity.
- Lowering the temperature prolongs the setting time of the resin and increases its viscosity.

### EXAMPLES OF USE

#### Grounding layer

BAUPOX® 100 ST should be applied on the foundation in one or two layers using a rubber squeegee and then a roller, until the effect of even and complete saturation is achieved.

Depending on the kind of the target floor solution, the fresh surface may be left smooth or sprinkled over with fractional quartz aggregate in the amount of 0.5-1.5 kg/m<sup>2</sup>.

Consumption: 0.30-0.50 kg/m<sup>2</sup> – depending on the absorptivity and class of the foundation.

#### Base layer in systems with granulate from quartz aggregate

Apply BAUPOX® 100 ST filled in the proportion of 1:1 with quartz aggregate fraction 0.2-0.8 mm evenly on the foundation using a long steel float, leaving on its surface a uniform layer filling the pores and levelling slight irregularities in the surface. Sprinkle the surface over, completely and evenly, depending on the target flooring solution, with natural or dyed quartz aggregate of proper fraction (about 3.0 kg/m<sup>2</sup>).

When it hardens, sweep the excessive amount of the aggregate, delicately regrind the surface with abrasive paper and then remove dust from the whole of it.

Consumption: 0.60 kg/m<sup>2</sup>

#### Epoxy screeds

Apply BAUPOX® 100 ST filled in the proportion of 1:5 to 1:10, depending on the fraction of the aggregate used, evenly on grounded foundation with a long steel float, then float it manually or mechanically until a uniform surface is obtained.

Consumption of the mixture per 1 mm of the layer: about 1.8 kg

**NOTE:** Contact of newly made surfaces with moisture (rain, dew, high humidity of the air) will disturb the setting process. The surface may remain sticky for a longer period of time and have a tendency to develop milk-like pigmentation.

### USABILITY

At the temperature of 20°C and relative air humidity of 60-70%:

- pedestrian traffic – after 24 hours
- mechanical loads – after 72 hours
- complete resistance – after 7 days.

### CLEANING

Tools as well as possible stains should be cleaned when still fresh with acetone.

### SAFETY MEASURES

BAUPOX® 100 ST is classified as a dangerous material. Guidelines as to the safety of work are included in the specification sheet of dangerous chemical preparations.

BAUTECH Sp. z o.o.

ul. Staszica 25, 05-500 Piaseczno, Poland

phone +48 22 716 77 91; fax +48 22 716 77 90

e-mail: bau@bautech.eu

www.bautech.eu

**MISCELLANEOUS INFORMATION**

- All the information contained herein refers to products stored and used in accordance with our recommendations. They have been presented in good faith and take into account the current state of knowledge and experience possessed by Bautech. You are obliged to use the product in accordance with its intended purpose and Bautech's recommendations. All the technical information provided herein is based on laboratory tests and trials. Out-of-laboratory tests may give different results due to the conditions, location, manner of application and other circumstances that are out of Bautech's control. Any different recommendations issued by our employees require a written form, on pain of nullity. These instructions replace all the previous ones and make them void.
- In case of adverse humidity and temperature conditions, heaters and/or air driers must be used.

**PACKAGING**

10 kg, 20 kg

**STORAGE**

6 months from the date of production specified on the packaging, when stored on pallets in originally closed packaging and at the temperature from +10 to 25°C.

**TECHNICAL DATA**

Product compliant with EN-13813

Mixing proportions (component A – component B)	100 : 41 in terms of weight
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Density	about 1.1 g/cm <sup>3</sup>
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Colour	colourless, transparent
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Usability time at +20°C – 100g	about 25 min.
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Adhesion after 28 days	over 1.5 N/mm <sup>2</sup> (B1.5)
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Application temperature	from +10°C to +25°C Temperature of the foundation at least 3 °C over the dew point
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EN 13813  
SR-B1.5