

SYSTEM DATA SHEET

BAUTECH BAUPOX™ SR SYSTEM

Epoxy resin anti-slip floor system

DESCRIPTION

Epoxy resin system designed for use in industrial an anti-slip flooring system with natural quartz aggregate. Designed for use in industrial facilities and public buildings exposed to loads corresponding to medium and heavy conditions of vehicular traffic and heavy foot traffic.

USES

A flooring system designed for application concrete substrates that conform to the standard specifications for flatness and strength in facilities such as:

- production facilities
- warehouse facilities
- technical facilities
- loading ramps and platforms

ADVENTAGES

- High abrasion resistance
- High dusting resistance
- High impact resistance
- Contains hard wearing corundum aggregate
- Easy to clean
- Sealed and non-dusting surface
- Wide range of colors

SUBSTRATE PREPARATION

The concrete substrate has to be stable, sound with at least C20/25 class concrete with the minimum pull -off strength of 1.5 N/mm² and the Minimum flexural strength of F3/F4. Substrate moisture must not exceed 4% by weight. The substrate needs a leak-tight horizontal damp-proof course to prevent capillary action. Surfaces to be protected with epoxy coatings need to be clean and absorbent. Bleeding water, any kind of dirt and old protective coatings need to be removed mechanically by grinding, shot blasting or milling. When renovating old epoxy flooring, adhesion strength must be checked (at least 1.5 N/mm² is required) and the surface should be degreased and tarnished mechanically.

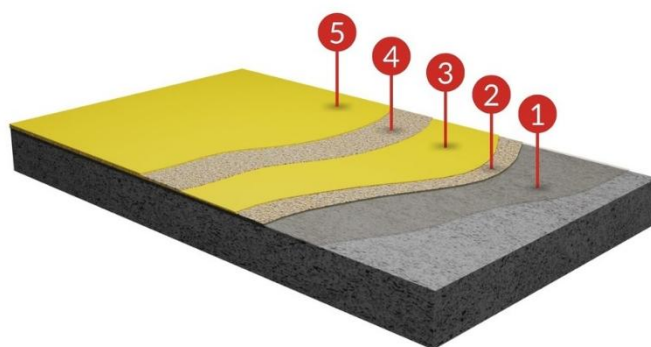
APPLICATION CONDITIONS

- Substrate moisture <4%
- Substrate temperature **min. +10°C**
- Substrate temperature should be at least 3°C higher than the calculated dew point
- Ambient humidity **max. 75%**

NOTE! The workplace must be well ventilated.

SYSTEM COMPONENTS

1. Primer - epoxy resin: Bautech **BAUPOX™ 100 ST** or Bautech **BAUPOX™ 100 K** (RAL7040)
2. Quartz sand **0.4-0.8 mm**
3. Base coat - epoxy resin: Bautech **BAUPOX™ 200** (color) or Bautech **BAUPOX™100 K** (RAL7040)
4. Quartz sand **0.2-0.8 mm** (full broadcast)
5. Top coat - epoxy resin: Bautech **BAUPOX™ 200** (color) or Bautech **BAUPOX™ 100 K** (RAL7040)

**INSTALATION**

- **Primer** - epoxy resin: Bautech **BAUPOX™ 100 ST** or Bautech **BAUPOX™ 100 K**

After thorough mixing, spread epoxy resin on a concrete substrate in one or two layers using a rubber squeegee and then a roller until full saturation is achieved.

Coverage: 0.30-0.50 kg/m²

Then backfill the surface with 0.4-0.8 mm quartz sand.

Coverage: 1 kg/m²

After polymerization is complete, sweep excess aggregate, grind the surface gently with a grinder using sandpaper and vacuum the surface.

- **Base coat** - epoxy resin: Bautech **BAUPOX™ 200** (color) or Bautech **BAUPOX™100K** (RAL7040) and quartz sand **0.2-0.8 mm**

Spread BAUPOX™ 200 or BAUPOX™ 100K evenly on the substrate using a steel float, leaving a uniform surface layer to fill the pores and level slight irregularities. Then backfill the surface with an even layer of 0.2-0.8 mm quartz sand in the amount of ca. 3.0 kg/m² – full broadcast. After polymerization is complete, sweep excess aggregate, grind the surface gently with a grinder using sandpaper and vacuum the surface.

Coverage: 0.50 kg/m²

- **Top coat** - epoxy resin: Bautech **BAUPOX™ 200** (color) or Bautech **BAUPOX™100K** (RAL7040)

Spread BAUPOX™ 200 or BAUPOX™ 100K evenly on the quartz aggregate in one or two layers with a steel float or a rubber squeegee. To reduce material consumption it is recommended to carry out gentle intermediate grinding with a grinder using sandpaper.

Coverage: 0.50-0.60 kg/m² – 1st layer

0.25–0.30 kg/m² – 2nd layer

Leave every layer to cure for about 24 hours before installing the next layer.

NOTE! Contact of newly installed surfaces with moisture (rain, dew, high humidity) will disturb the curing process. The surface may remain sticky for a longer period of time and have a tendency to develop milky discoloration.

SPREAD OF CURE

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

- foot traffic – after 24 hours
- mechanical loads – after 72 hours
- full cure – after 7 days

CLEANING AND MAINTENANCE

Bautech **BAUPOX™ SR SYSTEM** – should be kept clean by manual sweeping or mechanical cleaning using scrubber dryers and active cleaning agents. Neutral or slightly alkaline detergents with a pH value of 5.5 to 10 may be used. The temperature of the cleaning agent cannot exceed 60°C. The floor must not be cleaned using strong solvents, diluents or agents containing active chlorine. Detailed cleaning requirements are specified in the Instructions for Use of Bautech BAUPOX™ Floors.

SAFETY MEASURES

Detailed information on safety measures, storage conditions as well as technical data for each product can be found in the Safety Data Sheets and the Product Data Sheets of individual products.

GENERAL INFORMATION

All information included herein refers to products stored and used in line with our recommendations and is presented in good faith and based on the current state of the art as well as the experience of BAUTECH®. The product must be used in accordance with its intended purpose and BAUTECH® recommendations. All technical data provided herein is based on laboratory trials and tests. Practical measurement results may differ due to specific conditions, location, application method and other circumstances, which are beyond the control of BAUTECH®. Recommendations given by our employees, if different from those given herein, must be in writing to be valid. This instruction supersedes any previous versions.

In the event of adverse humidity and temperature conditions, heating equipment and/or air dehumidifiers must be used.

BAUTECH® products are intended for professional use by trained personnel. Contractors must read the Product Data Sheets and the Safety Data Sheets for the materials used.

TECHNICAL DATA	
System thickness	≥ 1.5 mm
Color range	see BAUTECH® color chart
Pull-off strength	> 2 N/mm ² (B2.0)
Flexural strength	> 20 MPa (F20)
Compressive strength	> 40 MPa (C40)
Impact resistance	IR 10 Nm
BCA abrasion resistance	AR0.5
Skid resistance	R11 - R12
Fire resistance class	C _{fi} -s1 fire-retardant
Chemical resistance	acc. to the chemical resistance chart
Standard	PN-EN 13813:2002