

BAUTECH SR SYSTEM

SYSTEM DESCRIPTION

Anti-slip flooring system filled with natural quartz aggregate. For industrial and public facilities subject to pressure corresponding to medium and heavy conditions of wheel transport and intensive pedestrian traffic.

Resistant to impacts, pressure and shocks typically occurring during the loading of medium and heavy cargo.

AREAS OF APPLICATION

A flooring system to be used on stabilized concrete foundations and cement screeds, meeting standard smoothness and capacity-carrying parameters, e.g.:

- production facilities
- warehouses and logistic centres
- technical facilities
- loading platforms

SYSTEM COMPONENTS

- **Grounding layer – standard**
BAUPOX 100 ST
topping – dyed aggregate 0.4-0.8 mm
- **Main layer:**
BAUPOX 200
topping – dyed aggregate 0.2-0.8 mm
- **Finishing layer:**
BAUPOX 200

PREPARATION OF THE 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/mm². The acceptable humidity of the foundation must not 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.

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.

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.

CAUTION

System is not resistant to metal and polyamide wheel loads.

LEGAL NOTES

All information contained herein is based on the current state of knowledge resulting from performed trials and laboratory tests. As it has no control over the actual manner and conditions of application of materials included in the system, Bautech Sp. z o.o. informs that the data contained herein as well as any oral advice not confirmed in writing may not constitute a basis for unconditional legal liability of the producer.

All previous technical sheets become void with the publication of this one.

MISCELLANEOUS INFORMATION

Other information regarding the conditions of application, use, cleaning and maintenance of polymer floors by Bautech Floor System is included in Technical Instructions and Technical Sheets of individual products.

TECHNICAL DATA

Product compliant with EN-13813

Thickness	≥1,5 mm
Colours	According to BAUTECH Colour chart
Bond strength	> 1,5 N/mm ²
Bending strength	> 30 MPa
Compressive strength	> 50 MPa
Hardness	> 90 MPa
Abrasion resistance – Bohme test	< 10 (cm ³ /50cm ²)
Resistance to impact abrasion	> 5000 revolutions (RS – 1)
Anti-slippery properties:	R-10 – R-13
Fire rating	C _{fl} -s1 and flash resistant
Chemical resistance	According to chemical resistance chart



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DETAILED DESCRIPTION OF TECHNOLOGY

Primer layer

Material: BAUPOX 100 ST.

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.

Then sprinkle the surface evenly over with natural quartz aggregate of fraction 0.4-0.8 in the amount of about 1.00 kg/m^2 – loose sprinkling.

After polymerization delicately regrind the surface with a grinder with abrasive paper and remove dust from the whole of it.

Consumption: $0.30 - 0.50 \text{ kg/m}^2$.

Main layer:

Material: BAUPOX 200

Spread the resin evenly on the foundation using a steel long float or a roller for resins, leaving on its surface a homogenous layer filling the pores and levelling slight irregularities. Then sprinkle the surface evenly over with natural quartz aggregate of fraction 0.2-0.8 mm (about 3.0 kg/m^2 – complete filling).

After polymerization, sweep the excessive amount of the aggregate, delicately regrind the surface with a grinder with abrasive paper and then remove dust from the whole of it.

Consumption of resin: 0.50 kg/m^2 .

Finishing layer

Material: BAUPOX 200.

Spread the product evenly on the base with topping from natural quartz aggregate in one or two layers using a metal or rubber long float or roller.

In order to decrease the consumption of the material it is recommended to perform a delicate grinding with a mechanical grinder with sandpaper.

Consumption: $0.55 - 0.60 \text{ kg/m}^2$ – 1st layer
 $0.25 - 0.30 \text{ kg/m}^2$ – 2nd layer

Leave the floor to harden for about 24 hours.

CLEANING AND MAINTENANCE

BAUTECH SR SYSTEM should be kept clean – it should be swept manually or cleaned mechanically using scrubbing and collecting devices with addition of active cleaning agents.

Neutral or lightly alkaline detergents (pH from 5.5 to 10) may be used.

The temperature of the cleaning agent must not exceed 60°C .

It is forbidden to clean the floor using strong solvents, thinners and preparations containing active chlorine.

Detailed conditions of cleaning are specified in IT-05 technical instruction.