BAUTECH COLOR QUARTZ 8 SYSTEM

SYSTEM DESCRIPTION

A flooring system on the basis of dyed quartz aggregate – poured type.
For industrial and public facilities subject to loads 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 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. :

- dry and wet production facilities
- food processing plants
- warehouses and logistic centres
- loading platforms
- commercial facilities

SYSTEM COMPONENTS

- **Grounding layer – standard**
  BAUPOX 100 STR
- **Main layer:**
  BAUPOX 200
  topping – coloured sand 0.4-0.8 mm
- **Finishing layer:**
  BAUPOX 400

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 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 Color Sand chart
Bond strength	> 1,5 N/mm^2
Bendig strength	> 30 MPa
Compressive strength	> 60 MPa
Hardness	> 100 MPa
Abrasion resistance – Boehme 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

CE

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EN 13813
SR-B1,5

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DETAILED DESCRIPTION OF TECHNOLOGY

Primer layer
Material: BAUPOX 100 STR
BAUPOX® 100 STR 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.
Consumption: 0.30 – 0.50 kg/m^2.

Main layer:
Material: BAUPOX 200
Apply BAUPOX® 200 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. Then sprinkle the surface evenly over with colour quartz sand of fraction 0.4-0.8 mm in the amount of about 3.0 kg/m^2 – complete filling.
After polymerization delicately regrind the surface with a grinder with abrasive paper and remove dust from the whole of it.
Consumption of resin: 0.50 kg/m^2

Finishing layer
Material: BAUPOX 400
Spread BAUPOX® 400 evenly over the floor from coloured quartz sand using a long steel float or or rubber squeegee.
In order to reduce the material consumption is recommended to gently grind intermediate using mechanical grinder with sandpaper.
Consumption of resin: 0,50 – 0,55 kg/m^2 – 1st layer
0,20 – 0,15 kg/m^2 – 2nd layer

Leave the floor to harden for about 24 hours.

CLEANING AND MAINTENANCE

BAUTECH COLOR QUARTZ 8 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.

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