

Bautech FORMULA™

Silicate and polymer based sealer and densifier for concrete surfaces

PRODUCT DESCRIPTION

Water-based solution of silicates of selected alkali metals that chemically modifies the surface of concrete floors. Thanks to the carefully selected silicates of different sizes, it creates solid material in the pores of the concrete. Thanks to the penetration and strengthening of concrete in the molecular structure, it allows to obtain a highly resistant cement matrix of fine physical and chemical properties. Additional modification with a specially selected polymer binding agent provides the maximum level of sealing the concrete by bonding those ingredients of the concrete matrix that are devoid of free calcium compounds. Thanks to the application of BAUTECH FORMULA™, the surface is protected against dusting, penetration of liquid substances (oil, salt solutions) and moisture. Hard, abrasion resistant surface still remains a vapour-permeable structure, which prevents the creation of destructive pressures inside the floor slab.

USES

For new and old concrete surfaces and concrete floors in DST technology (hardened and power floated) to seals the surface, prevent from losing water too quickly and protect against dusting.

In warehouses, production halls, processing plants and pharmaceutical plants.

NOTE: Due to the modification with polymers, the product can not be apply in polished (polished) concrete technology. The best results are obtained on power floated concrete floors.

BENEFITS

Provides a long-lasting protection against:

- dusting
- dirt
- moisture
- intensive use
- contamination
- ready to use
- for indoor and outdoor application



APPLICATION CONDITIONS

Substrate and ambient temperature: from 5 to 30°C

MIXING

BAUTECH FORMULA is supplied ready to use. The contents of the package should be thoroughly mixed before use.

APPLICATION

NEW FLOORS:

After power floating, and when the floor can be stepped on without a risk of impressing a shoe mark on it, BAUTECH FORMULA™ should be sprayed evenly on the dry surface in the amount of 0.1 – 0.25 l/m² until it is covered completely. The surface should stay wet for 15-20 minutes. An additional amount of the BAUTECH FORMULA™ A should be applied in places where it dries faster – a microfiber mop helps distribute the agent evenly and maintain the surface wet for the necessary time. The application should not be delayed, as it will decrease its effectiveness. When the surface dries, you may go on to the next step of protection which is the polishing of the floor using NANOCOAT. Uneven distribution or leaving puddles of BAUTECH FORMULA™ may result in the creation of white salt blooming on the floor. Should this occur, the floor must be cleaned using an automatic scrubber in order to remove all sediments, before the application of NANOCOAT™.

NOTE: It is recommended that the floor be maintained dry for 3-7 days after the work, as this will allow to avoid surface salt blooming. The declared resistance and strength will be reached after about 28 days. During use the surface will increase its hardness, strength and gloss. In case of dusting and porous surfaces, the amount of agent used will differ from the recommended one. It is recommended that BAUTECH FORMULA™s be applied on a trial area first.

OLD FLOORS:

The surface of the floor must be homogenous and free from impurities. Before applying the preparation, all impurities (dirt, dust, oil spills, impregnations, surface care products) should be removed mechanically and all defects and damages repaired. In order to provide the best result on dusting surfaces, it is recommended that the surface be polished before application to remove the weakest layer of the floor. Then spray BAUTECH FORMULA™ in the amount of 0.1 – 0.25 l/m², making sure the surface remains wet for 15-20 minutes. An additional amount of the BAUTECH FORMULA™ should be applied in places where it dries faster – a microfiber mop helps distribute the agent evenly and maintain the surface wet for the necessary time. In case of porous or dusting surfaces, it is recommended that another layer of the preparation be applied. The other layer should be applied after the first one has dried. When the surface dries, you may go on to the next step of protection which is the polishing of the floor using NANOCOAT in accordance with its technical specification. Uneven distribution or leaving puddles of BAUTECH FORMULA may result in the creation of white salt blooming on the floor. Should this occur, the floor must be cleaned using an automatic scrubber in order to remove all sediments, before the application of NANOCOAT.

NOTE: It is recommended that the floor be maintained dry for 3-7 days after the work, as this will allow to avoid surface salt blooming. The declared resistance and strength will be reached after about 30 days. During use the surface will increase its hardness, strength and gloss. In case of dusting and porous surfaces, the amount of product used will differ from the recommended one. It is recommended that BAUTECH FORMULA be applied on a trial area first.

TOOL CLEANING

Tools should be cleaned with water immediately after use.

SAFETY MEASURES

Places where work is carried out must be well ventilated. Employees should use clothes, shoes, glasses and gloves protective. In case of contact with the skin, contaminated areas should be washed immediately with soap and water. The preparation is alkaline and may irritate the eyes and skin. Seek medical attention if allergic occurs. The preparation is not harmful to the environment. Keep out of the reach of children.

PACKAGING

5 l, 20 l, 200 l, 1000 l

GENERAL GUIDANCE

This data sheet is for general guidance purposes only. Further information is available from our Technical Department.

SHELF LIFE/STORAGE

6 months from the date of production specified on the packaging, when stored in originally closed packaging, in a dry, well ventilated rooms, and at the temperature from +5 to 25°C.

Protect from freezing.

TECHNICAL DATA

Density	About 1.0 g/cm ²
Coverage*	1l / 4-10 m ² 0.1-0.25 l m ²
Coatings number	1 - 2
Drying time at temp. 20°C	About 1-2 h
Application temperature	+5 to 30°C
Chemical resistance	Oil, ethyl alcohol; detergents
Oil permeability (mm)	Concrete C20/25 7.7 Concrete + Formula 0.0
Increased abrasion resistance (Bohme disc) comparing with standard concrete	by 30%
Decreased water evaporation rate EN 13579 :2002	by 45%
Decreased concrete water absorption rate EN 1062-3	By 58%
Increased Impact resistance according to EN ISO 6272	By 50%