

BAUTECH FORMULA®

Silicate and polymer based agent for the curing, strengthening and sealing of 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 various ion 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 plate.

USE

To be used on old and newly-made concrete floors in warehouses, production halls, food and pharmaceutical production plants.

ATTENTION: As it is modified with polymers, the product is not to be used in the polished concrete technology. Best results are obtained on concrete floors floated mechanically.

PRODUCT CHARACTERISTICS

- It provides a long-lasting protection against:
 - ✓ dusting
 - ✓ dirt
 - ✓ moisture
 - ✓ intensive use
 - ✓ contamination
 - ✓ blooming
- Ready to use.

APPLICATION CONDITIONS

The substrate and ambient temperature should be between 5°C and +30°C.

MIXING

BAUTECH FORMULA is provided ready to use. Mix the contents of the pack thoroughly.

Protect from freezing.

APPLICATION**NEWLY-MADE FLOORS:**

After floating, and when the floor can be stepped on without a risk of impressing a shoe mark on it, the formula should be sprayed evenly on the dry surface in the amount of 0.1 – 0.2 l/m² until it is covered completely. The surface should stay 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. 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 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.

ATTENTION: 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 be applied on a trial area first.

EXISTING 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 0.2 – 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.

ATTENTION: 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.

CLEANING TOOLS

The equipment and tools should be cleaned with water immediately after use.

SAFETY MEASURES

Rooms in which works are carried out must be well ventilated. Workers should use protective clothing, shoes, glasses and gloves. In case of contact with the skin, immediately wash the soiled places with water with soap. This is an alkaline preparation which may irritate the eyes and skin. In case of allergic reaction consult your physician. The preparation is harmless to the environment. Keep out of the reach of children.

MISCELLANEOUS INFORMATION

All the information herein refers to products stored and used according to our recommendations, has been presented in good faith and takes into account the current state of knowledge and experience of BAUTECH. You are obliged to use the product in accordance with its intended purpose and BAUTECH's recommendations. All the technical information provided 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 must be made in writing; otherwise, they shall be deemed null and void. These instructions replace all the previous ones and make them void.

PACKAGING

20 l, 200 l

STORAGE

6 months from the date on the packaging, if stored in original, tightly closed packaging, in ventilated rooms, at the temperature between 5°C and 25°C. Protect from direct sunlight.

PROTECT FROM FREEZING!

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TECHNICAL DATA

Density	about 1.0 g/cm ³	
Efficiency depending on the absorp- tivity of the surface	1 litre / 4-10 m ²	
Amount of layers	1 or 2	
Drying time at +20°C	about 1 - 2 hours	
Chemical resistance	oils, coolants, ethyl alcohol, detergents, etc.	
Application temperature	from +5°C to +30°C	
Consumption	0.1 – 0.25 l/ m ²	
Increased resistance to abrasive wear on Boehme disk as compared to model concrete	by 30%	
Oil permeability, in mm	concrete C20/25	7,7
	BAUTECH FORMULA	0,0
Decreased velocity of water evapo- ration as compared to model con- crete according to EN 13579 :2002	by 45%	
Decreased absorbability as com- pared to model concrete according to EN 1062-3	by 58%	
Increased impact resistance as compared to model concrete according to EN ISO 6272	by 50%	