INOCOT





Technical Information

INOCOT 618 H

Silicate based agent for the water repellent treatment of concrete

Description

INOCOT 618 H is a ready to use lithium silicate for the water repellent treatment of surfaces based on cement-bonded materials (cementitious floors, terrazzo, screeds and natural stones).
The product is a milky and incombustible liquid.

INOCOT 618 H reduces the penetration of aqueous liquids and other dirt. INOCOT 618 H penetrates into the surface and reacts with the hydration product of the concrete, as opposed to synthetic resins, which only adhere to the surface.

Advantage

INOCOT 618 H is characterized by the following beneficial effects:

- Water repellency
- Low viscosity and alkalinity
- Very reactive and highly efficient
- No expansion of the concrete due to the lithium reaction
- Deeper and more complete concrete penetration
- Can be applied to new or existing concrete

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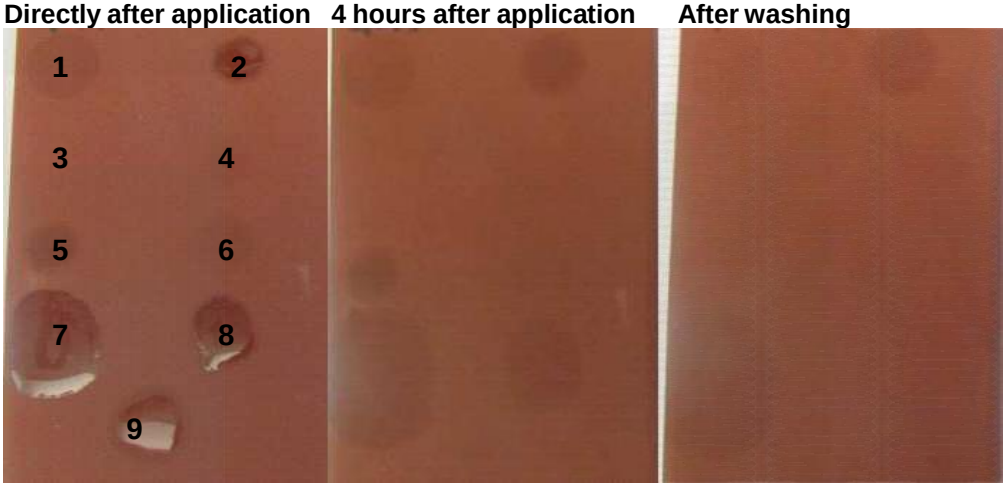
Chemical resistance

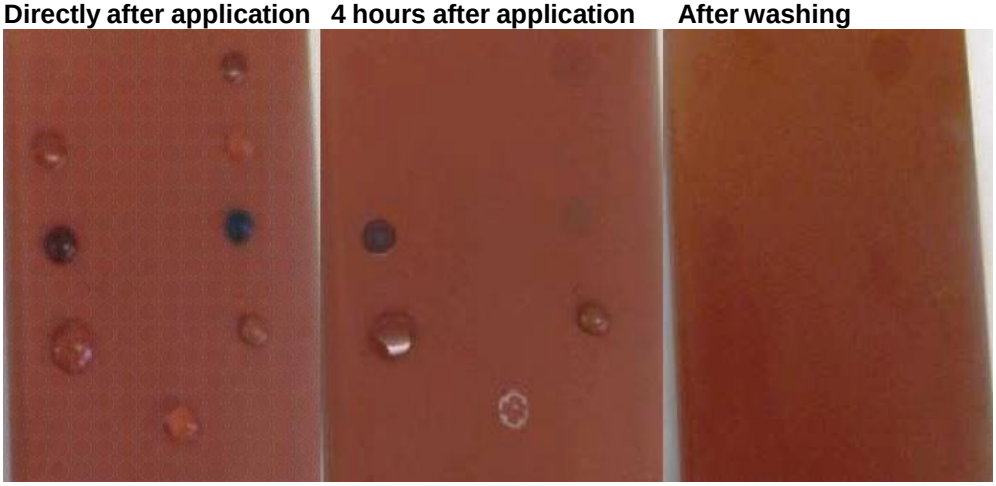
Untreated:

Directly after application **4 hours after application** **After washing**



Treated with INOCOT 618 H:

Directly after application **4 hours after application** **After washing**



Distribution of the drops:

1 Petrol	**2** Mineral oil
3 Formic acid	**4** Sodium hydroxide
5 Coffee	**6** Water with dye
7 Sunflower oil	**8** Ethylenglycol
9 Sodium chloride - 5% in water	

Test procedure: product was applied 2-times by paint brush on a smooth and absorbent surface. After 7 days of drying at room temperature, the drop test was performed. Evaluation was done after 0 and 4 hours. Finally the surface was washed, dried and re-evaluated.

Physical Properties

Properties	modified lithium silicate
Appearance	milky, white liquid
Odor	odorless
Combustibility	incombustible
Density	1.07 g/cm^3
Applied quantity	0.2-0.4 kg/m^2
Minimal waiting time for the product to penetrate	30 min
Curing time	30 days (accessible after a few hours)

Application

The product can be applied on all polished or unpolished concrete, cementitious screed or mortar surfaces. The application is possible on both new and existing concrete floors outdoor and indoor. If in doubt it is recommended to make a field test.
The application can be done by spray or roller.

Processing information

The surface to be treated has to be dry, solid and absorbent (porous). Before treatment please ensure that the surface is clean and free of contamination. Oil, grease and other adhesion-reducing impurities can affect the mode of action of the product.

The ideal temperature of the surface to be treated is between +5℃ and +35℃. A direct exposure to moisture should be avoided during the first day.

The drying time lasts for 2 to 3 hours, after that the floor will be accessible. The drying time can vary depending on the humidity. The completion of the reaction can take up to four weeks.

Cleaning recommendations

The equipment needed during the application has to be cleaned after use with water. Once the product has dried it can only be removed mechanically.

Storage

For detailed information, please check our "Guidelines - Storage and handling of liquid silicates" on our web-site www.vanbaerle.com.

Classification and safety

Consider the common precautions for using chemical products. Please read the information in the safety data sheet.

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Your partner for high quality silicates.

In 1888, vanBaerle started out as a soap factory. Ten years after its foundation, the company moved to its present location in Münchenstein and developed into a dynamic and innovative enterprise. With its business units Hygiene and Silicates, it is represented in more than 50 countries in Europe, Asia and North America. The company has 134 employees in its headquarters and its affiliated companies.
The production plants of the business units Hygiene and Silicates, the laboratories for development, application technology and quality management, as well as the warehouses and the administration buildings are all located at the Münchenstein site.

We have been transforming basic minerals into valuable products for more than 100 years. During this time, we have optimized established products and introduced many innovations. Today, silicates are important additives for a whole range of industries and can be found in many products. Silicates are used in welding rods, waste paper recycling, and detergents. They can bind pigments and cement, glue materials and protect and isolate buildings. And the good news is that the list of applications keeps constantly growing.

Legal notice

The technical details and recommendations are based on the best of our knowledge and they presume a proper storage and usage of the products. Due to the variety of possible substrates, materials and working conditions a guarantee or a liability can not be taken for the work result, whatsoever the legal relationship are. Before each use, the products must be tested for their suitability for the intended application and purpose. In any case, the user is responsible for the consequences arising from the use of the products.

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Above mentioned information is based on the current knowledge and may change according to technical progress. No guarantee on product data.