



Brilliant concrete surfaces.
Enhanced. For you.



vanBaerle

Better. For you.



Enhanced surfaces

Beautiful and long-lasting protection

Concrete surfaces are becoming ever more important in architecture. They are no longer only used in an industrial context, but also in residential buildings. As concrete is used more and more, the demands for longevity and visually appealing looks is rising. Floors enhanced with INOCOT coating offer many advantages compared to untreated concrete floors. INOCOT gives concrete floors a beautiful, modern and shiny look while also protecting them lastingly. The application is just as easy as keeping the floor clean after treatment. INOCOT is sustainable and very cost efficient.

LONG LASTING PROTECTION



Untreated concrete can be vulnerable to moisture, dust and staining and can deteriorate and change texture over time. Our INOCOT products cause a hardening and densification of the concrete generated by a chemical reaction. INOCOT impregnates the surface instead of just coating it, ensuring a long-lasting protection of concrete floors. An INOCOT treated floor will never blister.

BRILLIANT SURFACE



INOCOT treated floors are beautiful and modern. Through grinding and polishing, they develop a shiny finish, which increases with each cleaning. The INOCOT enhanced surface prevents dusting and protects the floor against traces like scratched coats.

EASY APPLICATION



Our INOCOT products are easy to use. They can be sprayed or splashed onto the concrete. A treated surface can be used again after only two hours. There is no need to wait until it is fully dried. For a shiny coating finish, the surface has to be grinded and polished.

EFFORTLESS CLEANING



A floor that is enhanced with INOCOT is easy to keep clean. Small pores within the concrete are impregnated so that dust and dirt can no longer accumulate in small cracks.

SUSTAINABLE ALTERNATIVE



Our INOCOT products are a green alternative to usual floor enhancers. They are inorganic, non-toxic, non-allergenic and emit no organic micro dust. They are safe during application, throughout the drying period and of course during their whole lifetime. INOCOT products contain no VOC, have a CO₂ neutral footprint and cause no hazardous waste during production or disposal.

COST EFFICIENT



Our INOCOT products are extremely cost efficient. Only very little product is needed (max. 0.5l / m²) for the treatment. At the same time, the product is extremely long lasting. There is no need for repeated treatment and no time is lost while waiting for the floor to dry.



Lithium silicates for new concrete

Lower alkalinity and viscosity

Sodium and potassium, which are often used in standard concrete treatment, react violently with fresh concrete, creating uneven clumps of calcium throughout the surface layer. These clumps form weak, erratic bonds that result in a shorter life cycle of the concrete.

Lithium's small molecule size, its lower alkalinity and viscosity causes a more stable and prolonged reactivity. Thus, it penetrates deeply and evenly, creating stronger bonds, increasing durability, and extending the life of concrete.

The application of lithium silicates is much easier and quicker than with standard silicates. Due to their slower reaction and lower viscosity, they penetrate much easier and do not need to be scrubbed into the surface to encourage the reaction. They are characterized by the following beneficial characteristics:

- Lower viscosity and alkalinity
- Smart and prolonged reactivity
- More efficient
- No expansion of the concrete due to the lithium reaction
- Deeper and more complete concrete penetration
- Most efficient on new floors

How it works

The treatment of concrete surfaces with lithium silicates, which act as a solidifying agent of the concrete, improves their properties and increases the service life. The lithium silicate reacts with the calcium hydroxide, a byproduct of the concrete hydration, to form calcium silicate hydrate (CSH) leading to a reinforcement of the concrete. The floor becomes much more resistant to abrasion and therefore the operating life of the concrete floor will be significantly increased. Lithium silicates generally have a lower viscosity and reactivity than the corresponding sodium and potassium silicates. Therefore, they can penetrate easier and thus deeper into the concrete. In addition, lithium carbonates will not migrate to the surface and do not lead to efflorescence.

Our portfolio for new floors

For the treatment of fresh concrete surfaces silicates of the type INOCOT 611 are recommended as base product. Additionally, the corresponding ready to use products INOCOT 612 as well as the hydrophobized INOCOT 618 H and the oleophobized INOCOT 619 O are available. All INOCOT products create a protective barrier that resists staining. They densify, seal, and repel while maintaining breathability and don't alter the appearance of the substrate. All INOCOT products are VOC free.

Overview of the lithium-based INOCOT products for the treatment of concrete surfaces

Application and Advantages	Properties	Product
Improved penetration behavior	lithium silicate	INOCOT 611
Particularly suitable for high-density concrete special ability for polishing		INOCOT 612
Extreme hardening of the surface		INOCOT 618 H
		INOCOT 619 O



Lithium-based silicates for existing concrete

Stronger bonds, increased durability

Dusting, cracking or brittle existing floors call for a product with a stronger binding force to adhere loose particles firmly to the substrate, create a reinforced surface and remedy fine cracks. As all silicates, INOCOT does not form a coating on the treated floor, it penetrates and impregnates the surface. Lithium-based silicates do have the ability to combine two different modes of action:

1. They can penetrate deep into the surface and the pores of the concrete, showing similar effects as described in the fresh concrete section above.
2. The higher binding power fixes loose particles by chemically binding those to the surrounding matrix, thus small cracks are bridged and pore diameters are decreased.

During this process, small amounts of silica are deposited in the pores as well as at the surface, this results in an increased gloss.

How it works

Our Lithium-based INOCOT products are fast-drying sealers that create a microfilm on polished concrete, stone, terrazzo, masonry, and other cementitious surfaces. This easy-to-use finish increases shine, enhances color, and improves resistance against abrasion, chemicals and stains. Our Lithium-based INOCOT products generally increase the coefficient of friction on polished surfaces. This non-toxic solution is ideal for integrally colored, dyed, and stained concrete surfaces.

Our portfolio for existing floors

For the treatment of existing concrete surfaces silicates of the type INOCOT 601 are recommended as base product. The corresponding ready to use products INOCOT 602 as well as the hydrophobized INOCOT 608 H and the oleophobized INOCOT 609 O complete the assortment. All INOCOT products create a protective barrier that resists staining. They densify, seal and repel while maintaining breathability, they do not alter the appearance of the substrate. All INOCOT products are VOC free.

Overview of the lithium-based INOCOT products for the treatment of concrete surfaces

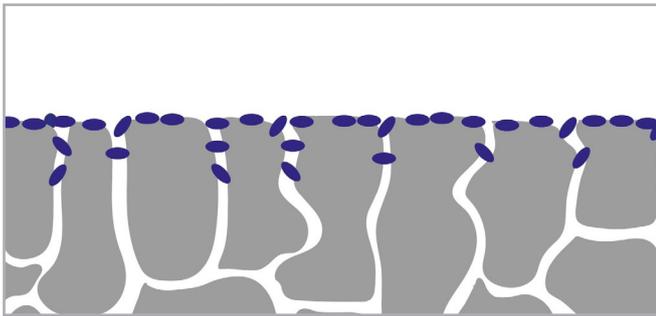
Application and Advantages	Properties	Product
For all types of floors Good dust binding capacity for old floors	lithium-based silicate	INOCOT 601 INOCOT 602 INOCOT 608 H INOCOT 609 O





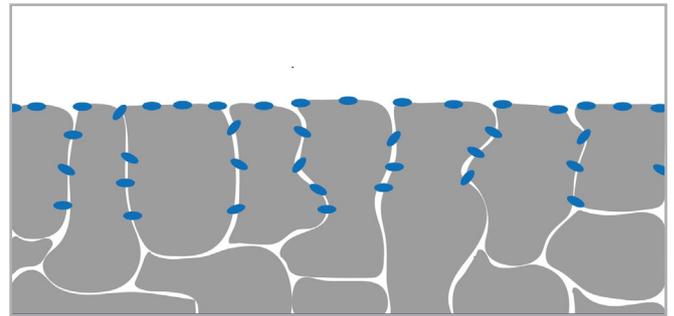
How it works

INOCOT for existing floors



INOCOT 601 is a lithium sealer that creates a microfilm on polished concrete and other cementitious surfaces.

INOCOT for new floors

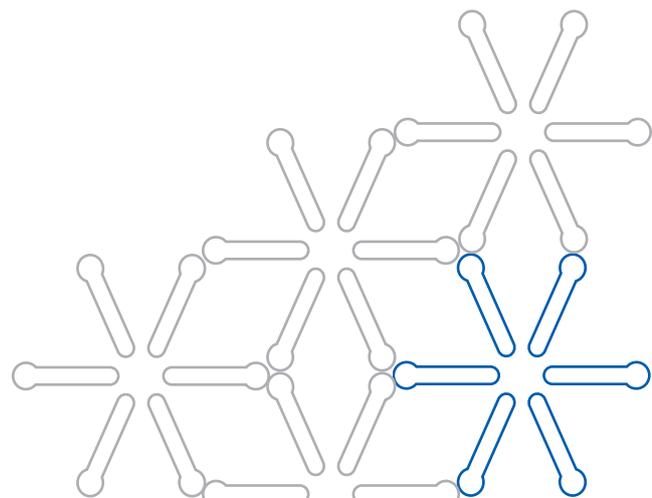


INOCOT 611 is a penetrating lithium stain guard. It creates a protective barrier that reinforces the concrete matrix.

Hydrophobized: INOCOT 608H & 618H



Both products are also available in a hydrophobized version. They prevent liquids from penetrating the surface of the concrete while also keeping all of their other advantages. INOCOT 608 H is the hydrophobized version of INOCOT 601. INOCOT 618 H is the well balanced hydrophobized version of INOCOT 611.





Minimum effort, maximum results

Application

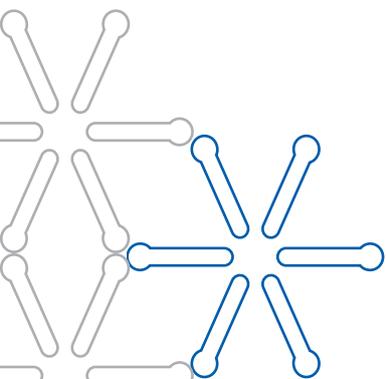
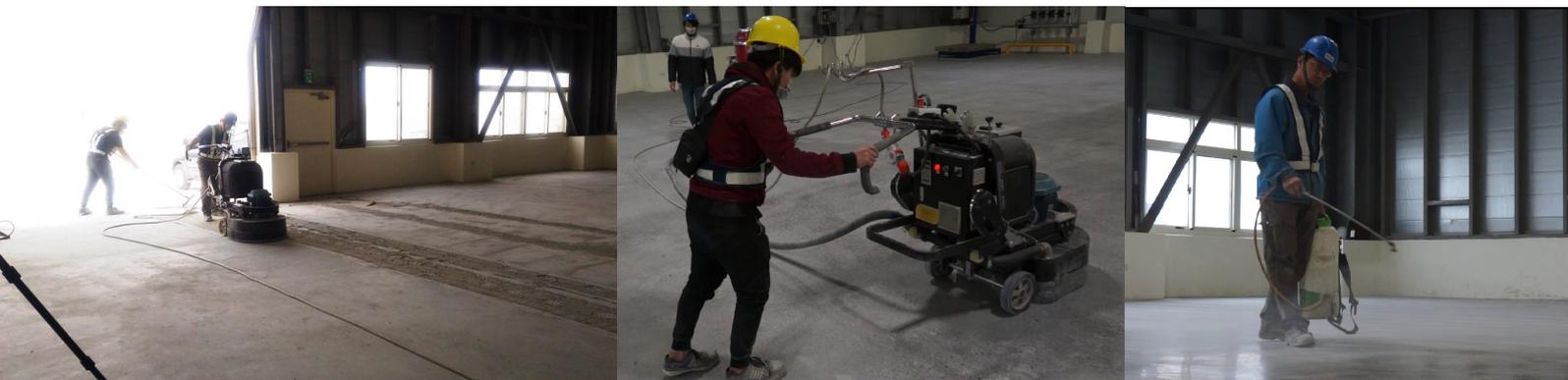
Our concrete treatment products of the INOCOT range are easy to apply. Clean the substrate - apply the product through spraying, sander filling or by roller - let dry – done! Of course you can alter the appearance gloss-wise to whatever you like by grinding, polishing and - depending on the desired effect - re-applying.

Dilution and Storage

It is recommended to dilute the product prior to the application to the required active content. For that purpose, it can be diluted 1 to 1 with water. Depending on the type of floor 0.2 – 0.4 kg/m² will be used. INOCOT should only be stored at temperatures between +5 and +40°C. The equipment used for this application has to be cleaned well with water after usage. Once the product has dried out it can only be removed mechanically.

Processing instructions

Usage of diluted product	0.2 – 0.4 kg/m ²
Application temperature	+5°C – +40°C
Waiting time till completion of penetration	approx. 30 min
Surface appearance	Surface has to be hard, dry, open-porous, free of dust, clean, free of oil and grease





Product portfolio

With the INOCOT range of silicates for concrete treatment vanBaerle caters for every need.

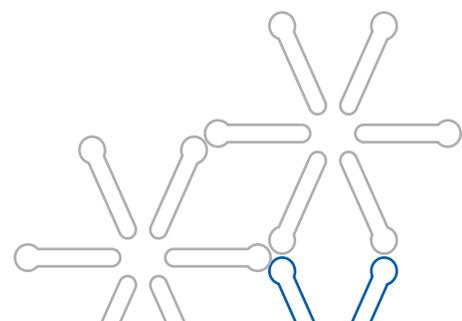
The previous pages gave you an overview of our range of products that were developed specifically for the treatment of your concrete surfaces. Below you can find a summary of all their features and benefits, which will help you to find the INOCOT product that best suits your needs. If any questions still remain unanswered or you just love to talk about concrete and how to enhance it as much as we do: Give us a [call](#) or [drop a note](#).

Overview of the INOCOT product range, features and benefits

Product	Features				Benefits						
	Ready to use	Concentrated	Modifiable	Outdoor use	Hydrophobicity	Oil repellency	Depth of penetration	Intrinsic gloss	Binding force	on existing floors	on new floors
INOCOT 601		•	•	•			+	++	++	++	+
INOCOT 602	•			•			+	++	++	++	+
INOCOT 608 H	•			•	++	+	+	++	++	++	+
INOCOT 609 O	•				+	++	+	++	++	++	+
INOCOT 611		•	•	•			++	+	+	+	++
INOCOT 612	•			•			++	+	+	+	++
INOCOT 618 H	•			•	++	+	++	+	+	+	++
INOCOT 619 O	•				+	++	++	+	+	+	++

Legend:

- ++ most suitable
- + good
- fulfilled





Why vanBaerle?



We discover new fields of application, develop new application technologies and continuously improve our assortment.
INNOVATIVE. FOR YOU.



We produce Swiss products of highest quality.
RELIABLE. FOR YOU.



Our experts have been putting their extensive knowledge to work for 100 years.
EXPERIENCED. FOR YOU.



We tailor our products exactly to your needs.
UNCOMPROMISING. FOR YOU.



We produce and deliver entirely according to your needs.
FLEXIBLE. FOR YOU.



We are always available.
PERSONALLY. FOR YOU.



We are committed to protecting people and the environment.
SUSTAINABLE. FOR YOU.

About vanBaerle

vanBaerle is a leading developer, producer and distributor of quality silicates. We focus on quality and sustainability to provide our customers with safe, eco-friendly and high quality products.

Having transformed basic minerals into valuable products for more than 100 years, vanBaerle is able to tailor its silicate products exactly to your needs. With our vast experience in inorganic chemistry we help to streamline your process while simultaneously optimizing your products' functionality and thus increasing your efficiency. In order to create value for you, we do not only provide top-notch products but also world-class service and technical assistance.

Starting as a soap factory back in 1888, the vanBaerle group quickly evolved into a dynamic and innovative enterprise. Headquartered in Münchenstein, Switzerland we also operate subsidiaries in Singapore and Taiwan. Our customers are based in 50 countries across Europe, America and Asia. Our approximately 50-stong workforce is the foundation of our success.

Contact

If you have a special request, an idea for improvement or a question, do not hesitate to contact us:

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