



SILIFOB N

Water-repellent impregnation for concrete

PRODUCT DESCRIPTION AND USE

Silifob N is a colourless silan-siloxan based liquid. It is intended for surface protection of concrete from water / humidity and salts. Its excellent absorption properties enable deep pore penetration and, after completed chemical reaction, the formation of an invisible impregnation.

The use of **Silifob N** enables a substantial reduction in water / humidity and salt absorption, thus reducing:

- penetration of salt and efflorescence of the material,
- formation of mould and fungi,
- scaling and flaking of concrete,
- cracking caused by freezing and thawing in the absence and in the presence of de-icing salts,
- corrosion of the framework.

Other positive effects are achieved:

- the structure and colour of concrete remain unchanged,
- the vapour permeability remains unchanged – concrete can "breathe" normally.

Because of these properties, **Silifob N** is used for the protection of:

- concrete elements in road construction: bridges, viaducts, concrete parapets, kerbs,
- other concrete elements: runways, dams, supportive walls,
- concrete elements in tall building construction,
- artificial stone,
- etc.

Note:

- Concrete has to be at least 28 days old (6 months are recommended) before the application of **Silifob N**.
- **Silifob N** does not bridge cracks wider than capillary cracks.
- **Silifob N** does not glue together loosely bound parts of the material.

CHARACTERISTICS

	Property
Appearance	colourless liquid with a characteristic odour
Density, 20°C	0,78 kg/dm ³

CONSUMPTION

- Usually 0,2 to 0,5 kg/m² of surface, depending on the type, porosity and coarseness of the surface.



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INSTRUCTIONS FOR USE

Silifob N is supplied in a ready-made concentration. The container has to be kept tightly closed at all times to prevent humidity from reacting with **Silifob N**, since this would reduce its efficiency. To ensure a truly efficient performance of the product, these instructions have to be followed:

• SURFACE PREPARATION

Surfaces treated with **Silifob N** have to be free from dust and oil, sound, free from damages or cracks.

The ideal surfaces should be moist, yet free from standing water (not saturated with moisture), which could reduce the absorption qualities of the material.

In case of longer periods of dry weather, high temperatures and drying winds, dampening of the surface is recommended. The surfaces should not be dampened directly before the application of **Silifob N**, but 12 to 24 hours earlier, so as to provide a dry appearance of the surface, yet enough moisture inside the concrete to allow for the penetration and chemical reaction of **Silifob N**. Concrete **should not be dampened** in cases when it had been exposed to rain 1 day before being treated with **Silifob N**, or in case of high relative humidity (> 85%).

• APPLICATION (SMALL SURFACES)

Silifob N is applied with a brush, roller or gun. Cover one smaller surface at a time and ensure a complete covering of the separate surfaces. Keep in mind that the treated surface has to be completely moist and that **Silifob N** has to be well absorbed.

• APPLICATION (LARGE SURFACES)

Vertical surfaces have to be treated from bottom to top. The quantity applied has to be sufficient to allow **Silifob N** to flow over an area of about 15 cm of previously treated surface before absorption. On horizontal surfaces, the quantity applied has to be sufficient to allow **Silifob N** to lie on the surface for a few seconds before being absorbed.

• CLEANING THE TOOLS

Tools have to be cleaned with white spirit or diluent after use.

PACKING

- 4 kg cans and 150 kg drums.

STORAGE

- **Silifob N** is an inflammable liquid, therefore it has to be stored in special warehouses with suitable storing conditions for inflammable products. Store the product in tightly closed containers, in a cool and ventilated place, protected from direct sunlight. Avoid contact with any source of ignition and heat.
- In tightly closed, undamaged packaging, the shelf life of the product is min. 2 years from the production date.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

SAFETY PRECAUTIONS

Silifob N is an inflammable liquid, therefore all general instructions for safe work with chemicals and inflammable products should be observed:

- Eating, drinking or smoking during work is prohibited.
- After finishing work, hands should be thoroughly washed with water.

When handling **Silifob N** suitable gloves and eye/face protection should be worn. In case of skin or eye contact, wash the affected skin area immediately and thoroughly rinse the eyes with water for at least 15 minutes, then seek medical help.

Silifob N may have harmful effects on aquatic organisms – do not release into the environment, do not discharge into drains.

NOTE

Instructions are given on the basis of examinations and technical experience of the firm. Due to specific conditions and work methods, preliminary tests are advised for every type of use. Since we cannot influence the course of work, we cannot be held responsible for its quality.