



Roka Floor Guard LS

Sodium Silicate Based Sealant and Curing Compound for Concrete

Roka Floor Guard LS is a single component, lithium silicate and acrylate dispersion, liquid used to cure, harden and seal existing power trowelled or polished/grinded concrete surfaces. When applied onto the concrete, it penetrates the surface and fills the concrete surface pores, reducing the absorption of the concrete during the first days after application.

Uses & Advantages:

- Single component.
- Silk gloss finish.
- Sealing & impregnation of concrete surface.
- Improves durability and tightness of concrete surface.
- Eliminates the occurrence of possible efflorescence on the concrete surface.
- Reduces surface dust.
- Solvent free.

Fields of Application:

Roka Floor Guard LS is suitable for applications on concrete surfaces where a hard surface with light to moderate abrasion resistance is required

- Mechanical workshops.



+92 321 4543320 |



info@rokachemsolutions.com |



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- Garages.
- Hangars.
- Parking Lots.
- Warehouses.
- Storage Rooms.
- Loading platforms.

Technical Information:

Chemical Base	Polymer Modified rapid hardening cement
Appearance	Milky White Liquid
Solid Content	~25.6 %
Density	1.15 kg/l at 25°C
Substrate Temperature	Minimum 5°C
Ambient Temperature	+ 2°C to +40°C
Substrate Moisture Content	The drier the substrate, the better penetration is achieved
Fully Serviceable	~2 hours at 30°C
Penetration depth	5mm
Capillary absorption & permeability to water	$w = 0,09 \text{ kg/m}^2\text{xh}^{0.5}$
Impact Resistance	60 Nm
Abrasion Resistance	48% increase compared to untreated sample



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Pull Off Test	1.2 N/mm ²
Packaging	15 liters
Shelf life	12 months if kept in recommended conditions
Storage Conditions	Keep in a dry place between temperatures 5°C to +30°C & away from sunlight

Surface Preparation:

Roka Floor Guard LS is designed to be applied exclusively on hardened concrete/cementitious surfaces. The surfaces must be treated after the cement has had sufficient time to hydrate, preferably at least 7 - 14 days after their placement. The surface must be clean, dry, mechanically sound and free from any laitance, oil or grease. This can be achieved with abrasive blast cleaning or other approved methods. All loose particles and friable materials must be removed prior to application.

In especially dry and warm environment the concrete surface should be properly pre-soaked with clean water prior to the product application. The application can start as soon as the surface is dry again.

Application:

Roka Floor Guard LS can be applied by means of mechanical or manual pressure sprayer with adjustable nozzle and spread evenly using a flat micro-fibre swap immediately after. It is recommended to apply another layer once the first layer has dried to achieve gloss and visual



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unification. To achieve high glossy surface additional polishing with soft PAD is possible, at least 24 hours after the application.

Important Remarks:

- The rate of watertightness increases gradually with maximum sealing and hardening occurring as earliest as 7 days.
- Gloss of the surface gradually increases during 30 to 90 days depending upon cleaning frequency.

Limitations:

- In low temperatures (below +10°C) the product may thicken and be difficult to spray.
- In hot weather (above +25°C) store Roka Floor Guard LS in a cool place prior to use.
- Do not use sprayers, which have been used to spray silicones or release agents.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.
- Do not use on substrates treated previously with curing agents, membrane forming sealers or asphalt until these layers have been removed completely.
- Roka Floor Guard LS will not alter the appearance of the concrete surfaces, so it will not hide excessive wear.
- Roka Floor Guard LS will not effectively work on lightweight, extremely porous or worn concrete.



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- Immediately wash over-spray from highly polished surfaces, glass or aluminium with water to avoid etching of surfaces.

Maintenance:

All the spillages must be removed immediately. The surface should be regularly cleaned with mechanical scrubbers, high pressure washers, wash and vacuum techniques using suitable detergent and waxes.

Health and Safety:

Use of protective clothing, safety goggles, gloves and is recommended while handling Roka Floor Guard LS. Avoid contact with skin and avoid vapours or mist inhalation. In case of any contact with skin, immediately wash with water. Any splashes in eyes should be cleaned with plenty of clean water and seek medical assistance immediately.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.



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All products are sold under our standard conditions of sale, which are available upon request.

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