



## TECHNICAL INFORMATION

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# LITOCRYSTAL-CL

## Polished concrete technology

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### APPLICATION.

**Lithocrystal-CL** — *hardener, sealant and protection against road salt and dust on concrete surfaces* is a liquid, water-based agent based on lithium silicates, which, by entering into a chemical reaction with the components of concrete, modifies its surface and provides effective protection against water and brine. It is used for the renovation of old and the refinement of new concrete and stone surfaces. It can be used for indoor and, above all, outdoor applications.

The main advantages of Litocrystal-CL are:

- protection of concrete surfaces against the harmful effects of road salt,
- additional hardening and sealing of the concrete floor,
- increasing the hardness and durability of the floor,
- dust reduction,
- increased resistance to abrasion, weather conditions, mechanical and chemical damage,
- creating a hydrophobic layer on the surface,
- colorless and shiny floor finish,
- preventing efflorescence and calcium leaching,
- easy single-layer application,
- no solvents or harmful volatile compounds,
- no carcinogenic or mutagenic properties,
- achieving deeper penetration and more durable protection thanks to the appropriate molecular size of lithium ions, ensuring longer protection and durability of the floor compared to floors made using other technologies, e.g. polymer coatings.

### HOW TO USE

- **Preparation of the substrate**
- Always test on the selected surface to see if the desired result will be achieved. Allow the surface to dry before checking and choosing the desired application. Any gaps in the floor should be filled with repair mortars, the layer of old and dirty concrete should be removed by grinding. The resulting surface should be smooth, non-porous, uniform and free from cracks.
- **Application and drying**  
Apply an appropriate amount of Litocrystal CL evenly onto the prepared substrate using:
  - low-pressure sprayers in this case the spraying should be carried out using a mist nozzle that will ensure complete coverage of the surface or
  - with a brush, mop or paintbrush and then roll out or spread the excess liquid in order to evenly cover the substrate.

The above information and recommendations are provided by the Manufacturer based on conducted research, tests and experience. The Manufacturer does not guarantee the achievement of an optimal final effect in the event of use not in accordance with the recommendations or storage conditions beyond the Manufacturer's control. The information contained in this document is based on currently available data characterizing the product and the Manufacturer's knowledge. It should be treated only as an aid for safe use, transport and storage of the product. This does not release the user from liability for improper use of the above information.

**Attention:**

In the case of newly made floors, Litocrystal CL should be applied after they have dried. Using too much Litocrystal CL may lead to discoloration and stains after drying.

**NOTE: Using too much Litocrystal-L** may lead to discoloration and stains after drying.

**TECHNICAL DATA.**

<b>Ambient and substrate temperature</b>	Above +5°C	
<b>Form of the preparation</b>	Ready to use	
<b>Drying time*</b>	1-2 hours	
<b>Consumption **</b>	Troweled concrete	0.07 - 0.09 kg/1m <sup>2</sup>
	Untrowelled concrete	0.11 - 0.14 kg/1m <sup>2</sup>
	Polished concrete	0.07 - 0.09 kg/1m <sup>2</sup>
<b>Efficiency **</b>	Troweled concrete	12 – 16 m <sup>2</sup> /1L
	Untrowelled concrete	8 – 10 m <sup>2</sup> /1L
	Polished concrete	12 – 16 m <sup>2</sup> /1L
<b>Penetration depth</b>	Approx. 8mm	
<b>Application method</b>	Apply the undiluted preparation by spraying, using a roller or a bench brush.	

\* Drying time of the preparation at a temperature of 23 °C and 50% air humidity.

\*\* Consumption and efficiency depend on quality, class, porosity and surface finish.

**PHYSICOCHEMICAL PROPERTIES**

<b>Chemical composition</b>	Aqueous dispersion based on lithium silicate
<b>Color</b>	Colorless, slightly opalescent
<b>pH</b>	Approx. 11.0
<b>Density</b>	1.1+/- 0.05 kg/dm <sup>3</sup>
<b>VOC content</b>	Does not contain
<b>Freezing point</b>	0°C
<b>Anti-slip</b>	Does not change after application

**PACKAGING.**

Plastic bottles and canisters with a capacity of 1 l, 5 l, 10 l, 20 l or other upon agreement with the customer.

**STORAGE AND TRANSPORT.**

Transport and store in tightly closed manufacturer's packaging at a temperature of +5°C to +30°C, in a place not exposed to sunlight. Shelf life 24 months from the date of production.

**SECURITY.**

**Lithocrystal-CL** is a high pH agent that, when in contact with water and other liquids, creates factors that may cause minor burns, irritation and rash.

Irritant (Xi). Contains: potassium methyl silicone (CAS: 31795-24-1, EC: 250-807-9), lithium hydroxide monohydrate (CAS: 1310-66-3, EC: 215-183-4).

R 36/38 Irritating to eyes and skin.

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S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28 After contact with skin, wash immediately with plenty of water.

S 35 Dispose of this product and its packaging safely.

S 36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**NOTE!: This product is not intended for sale or resale to the general public. It is intended for professional use only.**

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