

 www.igochem.com	TECHNICAL INFORMATION <small>Updated on 09.01.2023</small>	IGOSA Sp. z o. o. NIP 6482806063, KRS 0000924493, ul. Bronislawa Hagera 41 41-800 Zabrze biuro@igosa.eu www.igosa.eu
	LITOCRYSTAL-L Polished concrete technology	

APPLICATION.

Lithocrystal-L –is a liquid hardener that crystallises in the concrete structure. It is used to renovate old and refine new concrete floors, including surface-hardened and polished ones. Litocrystal-L is a lithium silicate-based agent that chemically reacts with concrete components to modify its structure. It can be used for indoor and outdoor applications.

The main advantages of Litocrystal-L are:

- additional hardening and sealing of the concrete floor,
- increasing the hardness of the floor,
- increased resistance to abrasion, UV radiation, mechanical and chemical damage,
- creating a moisture-resistant (hydrophobization) and dust-free surface,
- easy single-layer application,
- molecular size of lithium particles for deeper penetration and longer lasting protection,
- improving the appearance of the floor.

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, uniform and free from cracks.

• Application and drying

On the newly made floors, Litocrystal-L should be applied directly after spreading and smoothing the concrete toppings. Evenly apply the appropriate amount of Litocrystal-L to the prepared surface using low-pressure sprayers, a brush, mop or paintbrush in order to cover evenly so that there is no excess liquid. The surface prepared in this way should be left for 1-2 hours to dry. After drying, it should be protected with foil or a substance protecting the concrete from drying too quickly.

On the prepared old substrate: Apply the appropriate amount of Litocrystal-L by spraying using low-pressure sprayers, a brush, mop or brush to evenly cover the surface. The spray should be carried out using a nozzle that creates a mist and at the same time ensures complete surface coverage. The excess liquid should be rolled out or spread with a brush, mop or brush to evenly cover the substrate so that it remains wet for 20-40 minutes. The surface prepared in this way should be left for 1-2 hours to dry. On porous concrete substrates, the operation should be repeated after 24 hours. The floor achieves its final parameters after 7 days. The effects of using Litocrystal-L are visible after 24 hours. In order to obtain a shine, the surface can be polished after 12 hours using mechanical polishers with soft pads.

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

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.

TECHNICAL DATA.

Ambient and substrate temperature	Above +5°C
Form of the preparation	Ready to use
Drying time*	1-2 hours
Consumption **	Fresh troweled concrete 0.07 - 0.09 kg/1m2 Flocked concrete used 0.07 - 0.11 kg/1m2 Polished troweled concrete 0.07 - 0.09 kg/1m2
Efficiency **	Fresh troweled concrete 12 – 16 m2/1L Flocked concrete used 10 – 16 m2/1L Polished troweled concrete 12 – 16 m2/1L
Penetration depth	2-4mm
Application method	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

Chemical composition	Aqueous dispersion based on lithium silicate
Color	Colorless, slightly opalescent
pH	Approx. 11.0
Density	1.1+/- 0.05 kg/dm3
VOC content	Does not contain
Freezing point	0°C
Anti-slip	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-L 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.

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).

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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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