

 www.igochem.com	<h2>TECHNICAL INFORMATION</h2> <p>Updated on January 9, 2023</p>	<p>IGOSA Sp. z o. o NIP 6482806063, KRS 0000924493, street Bronisława Hagera 41 41-800 Zabrze biuro@igosa.eu www.igosa.eu</p>
	<h3>LITOCRYSTAL</h3> <h3>Polished concrete technology</h3> <h3>EN 1504-2:2006</h3>	

APPLICATION.

Litocrystal –is a liquid hardener that crystallizes in the structure of concrete. It is used to renovate old and refine new concrete floors, including surface-hardened and polished ones. Litocrystal is an agent based on lithium silicates which, by entering a chemical reaction with concrete ingredients, modifies its structure. Can be used for indoor and outdoor applications.

The main advantages of Litocrystal 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,
- creation of a moisture-resistant (hydrophobization) and dust-free surface,
- easy single-layer application,
- molecular size of lithium particles providing deeper penetration and longer-lasting protection,
- improving the appearance of the floor.

HOW TO USE

• Substrate preparation

Always perform a test on your chosen surface to see if you will achieve the desired result. Please allow the surface to dry before inspecting and selecting your desired application. Any defects on the floor should be filled with repair mortars, and the layer of old and dirty concrete should be removed by grinding. The resulting surface should be smooth, uniform and without cracks.

• Application and drying

On newly made floors: Litocrystal should be applied directly after spreading and troweling the concrete toppings. Apply the appropriate amount of Litocrystal evenly onto the prepared substrate using low-pressure sprayers, with a brush, mop or brush to ensure even coverage so that excess liquid does not remain. The prepared surface should be left for 1-2 hours. to dry. After drying, protect with foil or a protective agent to prevent the concrete from drying too quickly.

On the prepared old substrate: apply the appropriate amount of Litocrystal by spraying using low-pressure sprayers, with a brush, mop or brush to ensure even coverage. Spraying should be carried out using a nozzle that creates a mist and at the same time ensures complete coverage of the surface. Roll out or spread excess liquid with a brush, mop or brush to evenly cover the substrate so that it remains moist for 20-40 minutes. The prepared surface 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 are visible after 24 hours. To obtain a shine, you can polish the surface after 12 hours with mechanical polisher with soft pads.

NOTE: Using too large amounts of Litocrystal may lead to discoloration and stains after drying.

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TECHNICAL DATA.

Ambient and substrate temperature	Above +6°C
Preparation form	Ready to use
Drying time*	1 – 2 hours
Consumption**	Fresh troweled concrete 0.07 – 0.09 kg/1m ² Used troweled concrete 0.07 – 0.11 kg/1m ² Polished troweled concrete 0.07 – 0.09 kg/1m ²
Efficiency **	Fresh troweled concrete 12 – 16 m ² /1L Used troweled concrete 10 – 16 m ² /1L Polished troweled concrete 12 – 16 m ² /1L
Penetration depth	2 – 4 mm
Application method	Apply the undiluted preparation by spraying, roller or brush

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

** Consumption and performance depend on quality, grade, porosity and surface finish.

PHYSICAL AND CHEMICAL PROPERTIES

Chemical composition	Aqueous dispersion based on lithium silicate
Color	Colorless, slightly opalescent
pH	Approx. 11.0
Density	Approx. 1.1kg/L
VOC content	Do not contain
Freezing temperature	0°C
Anti-slip	It does not change after application

PACKAGING.

Plastic bottles and canisters with a content of 1 l, 5 l, 10 l, 20 l or others after consultation with the customer.

STORAGE AND TRANSPORT. ADR/RID: UN 1760 CORROSIVE PREPARATION, INCREASED FLUIDITY, I.N.O.

Transport and store in tightly closed manufacturer's packaging at temperatures from +5°C to +30°C, out of sunlight. Durability 24 months from the production date.

SAFETY. UFI: MF30-60AF-S002-9UEM

NOTE: alkaline agent.

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

Causes serious skin burns and eye damage.

Keep away from children.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse the skin under a stream of water (or shower).

Call a POISON CENTER or doctor immediately.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and can be easily removed. Continue rinsing.

Dispose of contents/container in accordance with local, regional, national and international regulations.

ATTENTION!: Intended for professional use only.

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