

 www.igochem.com	<h1>TECHNICAL INFORMATION</h1> <p>Updated on 09.01.2023</p>	IGOSA Sp. z o. o. NIP 6482806063, KRS 0000924493, ul. Bronisława Hagera 41 41-800 Zabrze biuro@igosa.eu www.igosa.eu
	<h2>POLYFOR</h2> <h3>Polished concrete technology</h3>	

APPLICATION.

Polyfor –high performance hardener, stain protection, micro-finishing coat for concrete floors is a liquid, water-based agent based on lithium silicates and polymers, which, by entering into a chemical reaction with the components of concrete, modifies its structure and creates a hydrophobic micro-coating with high chemical and mechanical resistance. It is used for renovating old and refining new concrete floors after using the Litocrystal preparation, including surface-hardened and polished ones. The agent is intended for indoor use.

The main advantages of Polyfor are:

- additional hardening and sealing of the concrete floor,
- increasing the hardness and durability of the floor,
- increased resistance to abrasion, stains, dust and mechanical and chemical damage by creating a vapor-permeable micro-coating,
- uniform, colorless and shiny floor finish,
- easy single-layer application and instant action,
- no solvents or harmful volatile compounds,
- no carcinogenic or mutagenic properties,
- achieving deeper penetration and more lasting 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,
- increasing resistance to microorganisms, •minimizing costs associated with floor operation.

HOW TO USE.

• Preparation of the substrate

Any gaps in the floor should be filled with repair mortars, the layer of old and dirty concrete should be removed by grinding, the surface should be cleaned of residues such as impregnants, care products, oil-like stains, dust, dirt, construction materials, etc. The surface can be washed with a mechanical scrubber using preparations with a neutral pH. The obtained surface should be smooth, uniform and without cracks. The substrate must be dry. Apply the Litocrystal preparation to the prepared surface and proceed according to the technology of its use.

• Application and drying

Apply an appropriate amount of Polyfor evenly onto the substrate prepared by using Litocrystal using low-pressure applicators. Spraying should be carried out using a nozzle that creates a mist and at the same time ensures complete surface coverage. Then Polyfor should be carefully spread using a rectangular microfiber mop to create a uniform thin layer.

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layer. After approximately 1 hour, the surface should be polished with a high-speed polisher at 1500 rpm using a black pad. The above steps can be repeated twice depending on the absorbency of the substrate, the method of finishing and the expected effect, without exceeding the application of three layers. Between each application, the surface should be polished using a black pad. The surface must not come into contact with water for the next 96 hours. The final parameters of a new floor are achieved after 14 days, while a renovated floor after 7 days. Light foot traffic is possible after 30-60 minutes, and vehicle traffic after 2 hours.

Attention: Do not leave standing water on the treated surface. If this happens, wipe off all stains and water immediately. It is recommended not to clean or scrub the surface for 7 days to prevent possible bleaching and discoloration of the surface. Grinding and polishing will only remove the protective film and is not recommended for industrial use.

TECHNICAL DATA.

Ambient and substrate temperature	Above +5°C
Form of the preparation	Ready to use
Drying time*	1 hour
Consumption **	I application 0.03 - 0.06 kg/1m ² II application 0.02 - 0.03 kg/1m ² III application 0.01 - 0.02 kg/1m ²
Efficiency **	I application 18 – 37 m ² /1L II application 37 – 55 m ² /1L III application 55 – 110 m ² /1L
Penetration depth	2-3mm
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 the quality, class, porosity and finish of the concrete surface.

PHYSICOCHEMICAL PROPERTIES

Chemical composition	Aqueous dispersion based on lithium silicates and polymers
Color	White
pH	About 11.5
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.

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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.

ATTENTION: an alkaline agent.

Irritating to skin.

Irritating to eyes.

Keep out of reach of children.

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

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

Remove contaminated clothing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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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