

## SOLID AND DURABLE INDUSTRIAL FLOOR

**LITOXIL** 

## A priming and strengthening preparation for new concrete surfaces based on lithium silicate.

Duadret description	Calarian liquid lithium cilicate based prostuctor depole into output and appear with calaina
Product description	Colorless liquid lithium silicate based, penetrates deeply into outer layer of concrete and reacts with calcium compounds, forming a water-insoluble gel. As a result, it fills the concrete pores and - by that meaning - it
	brings sealing and hardening of concrete floor at area of the formulation application.
Scope of application	LITOXIL is intended for hardening and sealing of new and up to 3 years old internal concrete floors in
Scope of application	warehouses, distribution and shopping centres, offices complexes, food processing plants, slaughterhouses,
	breweries, chemical plants, parking garages etc. Applicable to polishing / diamond grinding processes of
	concrete floors. It is recommended to use the agent on the fresh concrete.
Properties	• growth of mechanical resistance of treated concrete surface (resistance to abrasion - up to 30% and
	surface hardness - up to 10%),
	sealing of concrete surface (inhibition of moisture deep penetration),
	reduction of surface concrete porosity,
	• improvement of concrete floor aesthetic (easier to keep clean, increasing of light reflectance, increasing
	of surface gloss due to regular using and maintaining),
	elimination of dusting,     improvement of contings adhesion such as points.
	improvement of coatings adhesion such as paints.  Product features
Annogranco	
Appearance Packaging	colorless liquid Plastic cans 5I, 20 I, barrels 200 I
Shelf life	Shelf life of the product equals 12 months (listed on the package)
Storage conditions	Store product in a dry places at temperatures between +4 ° C to +38 ° C
Otorage conditions	Technical data
Color	Colorless
Odor	Odorless
Emissions of volatile	
organic compounds	0 g/l
(VOC)	
Clarity	Clear
Freezing point [°C]	0
Flammability	non-inflammable
Amount of layers	1-2
Mechanical properties	The average % of improvement in relation to uncoated control samples
	Resistance to abrasion, <b>ASTM D4060</b> 200 rev. Improvement – up to 30 %
	300 rev. Improvement – up to 30 %
	Hardening, ASTM C805
	Improvement - up to 10 %
	Application
Coverage rates	The formulation consumption closely dependents on porosity of the concrete and – associated with it -
	possibility of penetration and weather conditions too. Typical yields for machine trowelled floors equals 10 -
	15 m² /l, i.e. use of 0,05 – 0,06 l/m². More porous or damaged surfaces will require higher dose of the product
	and accordingly - less porous, smaller one.
Substrate preparation	Surface should be free from standing water, remnants of old coatings, dust, dirt, products containing wax,
	resins and sealants. Product should not be used on latex or epoxy concrete - polymer modified. The surface
	should be cleaned using a scrubbing brush machine with a nylon bristles. Prior to application, secure
Applying	surrounding areas using e.g. polyethylene film.  • an appropriate way of determining the optimal consumption of the product (with respect to a specific
Аррушу	area) is a few tests realization using different doses of the formulation. The best results are obtained
	when the preparation is dry after 15-20 minutes (longer drying time points out its overdosage and may
	results discoloration of the surface, and shorter drying time means deficiency of formulation which
	reduces declared product properties),
	• it can be applied by means of low pressure manual sprayer on small areas and it must be immediately
	trowelled evenly with an applicator of microfiber, not allowing to dry the product before trowelling,
	avoid walking, driving and transportation of equipment on freshly coated surfaces, all the imperfections of
	that coating, resulting from a/m activities, immediately rub using a microfiber applicator,
	mechanical scrubbing of the treated surface is not necessary after product applying, however - in order to     a state of the constant and the constant are formed to the constant and the constant are formed to the constant are forme
	rinsing with water is not required,
	<ul> <li>obtain the best properties and appearance of the concrete surface - it is indispensable to spread t agent uniformly and evenly,</li> <li>applied preparation thickens from starting moment of chemical reaction with concrete. Do not touch t surface of the concrete before finishing of that process (a risk of surface imperfections),</li> <li>after coat drying, remove any dried powder residue from the surface using floor scrubbing machine.</li> </ul>

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	formulation SILOXIL should be applied additionally as finishing coating, in any case of special requirements concerning surface aesthetic.
Application conditions	
Ambient temperature	minimum +4°C, maximum +38°C
Insolation	Avoid spraying in direct sunlight. The best results can be achieved when the product is applied in a shade, or in morning or in evening (a small incidence angle of sunlight).
Notes	Check the expiration date marked on the package and read updated documentation, before using of the product. In case of its contact with glass, aluminum or steel immediately wash contaminated places (in order to avoid permanent surface discoloration). Neutralize, rinse abundantly and dry acid stained sections of surface before product applying. Improper product applying or its overdose can cause unacceptable appearance of the concrete surface. Therefore- before starting work – make tests of application on site. Do not use product suspected of freezing. Do not apply the product on frozen surfaces, covered with puddles of water or dirty. Do not apply LITOXIL on surfaces previously coated with MELAXIL and MELAXIL ECO.
Notices and recommendations	
Health and safety conditions	All instructions and warnings placed on labels and product data sheet, should be read and understood before its application. This product is not classified as dangerous for man and environment, therefore when using the product the general rules of occupational health and safety must be complied with and the appropriate personal protective equipment must be used to minimize risks to the health or life of man. If ingested, immediately seek medical attention, and drink large quantities of water or milk and do not induce vomiting. In case of contact with eyes, for about 15 minutes rinse eyes with running water (remove contact lenses previously). The places of contact with skin wash off with soap and water, do not attempt to neutralize with chemical substances. Contact your doctor, if irritation symptoms persist. When somebody experiences difficulties in breathing due to inhalation of vapors emitted during application of preparation, this person should be picked up to fresh air immediately and posses possibility for repeated rinsing of mouth and nasal passage (using water). If problem persist, consult your doctor.
Final remarks	This instruction has been elaborated according to current state of knowledge and experience in scope of formulation application and refers to the product stored under specified conditions. Product documentation provides general information applicable to some conditions. Before using of the product at a large scale, it's recommended executing of application tests - by purchaser - in the real environmental conditions of object. Provider has no effect on types of uses, methods of application and conditions for an implementation existing on-site. So in respect thereof, product supplier responsibility for final work results, can not derive from this instruction.  Date of issue: 01/2016  All previously issued Litoxil safety data sheets shall expire on the date of issue of this sheet.