

DATA SHEET

LithiCoatz®

Lithium Silicate Concrete Densifier, Hardner and Sealer with Water Saving Technology

PRODUCT DESCRIPTION

LithiCoatz® is a VOC free, environmentally friendly lithium silicate concrete floor and vertical surfaces densifier, hardener and sealer. This product penetrates bare concrete surfaces and transforms them into a permanently dust free floor with a gloss that gets better with age.

There's no scrubbing, no washing and the water saving technology makes **LithiCoatz®** environmentally friendly and easy to apply. This product may be applied to new and existing cured, concrete as a chemical hardener, dustproofers and densifier as well as vertical surfaces to improve surface durability and appearance. **LithiCoatz®** is also very effective on polished concrete surfaces to harden, densify and protect the attractive and durable finish.

Basic Use: **LithiCoatz®** provides long lasting dustproof performance on high traffic concrete floors and vertical surfaces in CHPS schools projects, projects seeking LEED certification and other projects, including retail offices, grocery stores, shopping malls, civic centers, sports arenas, stadiums and other commercial buildings. It is also appropriate for factories and warehouses, pharmaceutical plants, textile mills, automotive, truck and bus terminants and laundries, as well as in food processing plants such as meat packing plants, canning factories, breweries and bakeries

FEATURES & BENEFITS

- Densities and dustproofs bare concrete floors and vertical surfaces
- Water saving technology (no scrubbing, no flushing residue with water)
- Reacts instantly upon contact with floor surface
- Produces surface gloss which improves with age
- Will not absorb water or contribute to floor sweating
- High traction non slip for safe floors
- Effective on both new and old floors
- UV stable, will not yellow, fade or discolor, VOC compliant, non flammable, odorless
- Easy to maintain, no waxing necessary
- Resistant to surface whitening
- Can be applied to freshly poured concrete
- Will assist curing process

Estimating

LithiCoatz® is available in factory sealed 5L, 20L, 200L and 1000L containers. Each container is properly identified with product name and batch number.

Typical Application Rates: Coverage dependent upon surface texture and porosity. Typical rate is 15m² / litre on hard trowelled, dense concrete. One coat normally recommended. For best results on porous concrete surfaces, apply second coat after the first coat has dried completely and any dried residue has been removed.

Polished concrete: Apply two coats: the first at 400 and the second at 15m²/litre for maximum hardness and surface durability, per instructions.

Technical Data

Typical Properties:

Type Solids	Lithium silicate
Active Solids	100%
Flash Point	None
Viscosity	Water thin
PH	10.9
Specific Gravity	1.10
Color	clear
Weathering, UV test	excellent
Surface breathable	yes
Skid resistance, ASTM-E-303	good
SCOF -wet or dry-	+0.6
Abrasion resistance, ASTM-C-799	
Increased wear resistance, VOC, gm/1	+200-400% 0

INSTALLATION

Surface Preparation:

Existing, Cured Concrete: Remove unsound concrete and fill holes, cracks and deteriorated areas. All residue, oil, sealers, waxes, contaminants and laitance must be removed from surfaces to ensure maximum penetration.

Application: Apply one, saturating coat of **LithiCoatz®** in a uniform manner, at a rate of 15 m²/litre. Install with a low pressure sprayer or other device, maintaining a wet surface sheen for 15 to 20 minutes. Apply more **LithiCoatz®** to areas that are more porous and appear to readily absorb the material. Redistribute any excess **LithiCoatz®** with soft broom or microfibre pad, allowing material to dry uniformly. Avoid brooming once drying begins. After drying remove any excess, powder-like residue with a stiff broom or dry buffer.

WALLS:

Ensure all wall surfaces are free of release agents and any other contaminants. Apply one coat of **LithiCoatz®** in a uniform manner at the rate of 15m² per litre. Install with a low pressure sprayer or other device. Apply more **LithiCoatz®** to areas that are more porous and appear to readily absorb the material.

New concrete application to fresh concrete may be necessary. In this case apply a uniform coat after final troweling and when surface water glaze is gone, but before application of a dissipating curing compound. Apply **LithiCoatz®** at the rate of 15 m²/litre with a low pressure sprayer. Remove any puddles or excess accumulation with soft broom or microfiber pad, allowing material to dry uniformly. After treatment has dried a specified dissipating resin curing compound per industry standard can be applied.

Diamond Polished Concrete: After a sequence of polishing steps has been determined, proceed with coarse grinding steps. After the 400 diamond grit step has been reached and completed, apply one uniform, saturating coat of **LithiCoatz®** at 10-15 m²/litre, keeping the surface wet for 15 to 20 minutes. Do not puddle. When dry, proceed with additional required polishing steps. After the 800 grit level and before the final polishing step, uniformly apply second coat of **LithiCoatz®** at 15-20 m²/litre. Allow to dry and remove any residue with polishing diamonds. No water flush is required.

FOR BEST RESULTS:

- Apply when concrete temperatures are 4°C and rising.
- Do not use acidic or highly alkaline cleaners on treated surfaces.
- All spills must be cleaned up in a timely manner.
- On new, interior concrete placements, we recommend finishing the concrete to a hard steel trowel finish (3 passes) per ACI-302.1R, Class 5 floor.

***LithiCoatz®** will aid in the curing of fresh concrete but does not meet Industry Standards as a standalone cure.*

PRECAUTIONS:

Avoid contact with skin, eyes and clothing. Wear skin and eye protection. Wash thoroughly after handling. Do not take internally. Please refer to product Safety Data Sheet (SDS) before using. Immediately wash off with water all over-spray from glass, metal surfaces and other materials which may be damaged. Do not dilute.

STORAGE/SHELF LIFE:

LithiCoatz® containers are to be sealed and stored in a clean, dry place above 4°C. Shelf life is two years in unopened containers when properly stored. Do not freeze.

WEBSITE:

CONCORD SEALERS convenient Internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates and other useful information. Visit... www.concordsealers.com.au

CONCORD SEALERS AUSTRALIA is ready to respond to your concrete information needs, anytime, anywhere!

LIMITED WARRANTY:

This product is warranted to be free of defects in material and workmanship, and conform to Concord Sealers quality control standards.

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guarantee of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose.

Satisfactory results depend upon many factors beyond Concord Sealers control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product.