

Lityofloor LSB 18

Construction Chemicals > Floor Coverings > Lithium Silicate-Based



Designed to be applied on concrete and cement-based floors, it is a liquid surface hardener and densifier made of silicate-based, lithium silicate-derived products. Lityofloor LSB 18 reacts with the free lime in concrete to form calcium silicate hydrate. These insoluble silicates increase strength and water resistance on the concrete surface. Increased surface hardness reduces dusting and provides a healthier environment by making maintenance easier. Compared to traditional sodium and potassium silicate hardeners, Lityofloor LSB 18 is easy and quick to apply.

■ Preparation of Substrate

- Factories
- Storage areas
- Garage floor concrete
- Aircraft hangars
- Shopping malls
- Parking lots
- Micro concrete applications

■ Advantages

- Single-component and easy to apply
- Reduces application time and costs in diamond polishing jobs
- Can be applied to both old and new concrete surfaces
- High abrasion resistance with hardness increasing over time
- Penetrates into the concrete and reacts with lime (calcium), preventing dusting and hardening the concrete
- Prevents dusting, ensuring adherence to the surface
- Increases water impermeability as the pores in the concrete fill up
- Water-repellent
- Has a transparent and glossy appearance
- Easy to clean
- Creates a shiny surface

1 Preparation of Substrate

The surface must be free from residues such as dust, oil, and paint that could prevent adhesion. Ensure the surface is dry before application, as a dry surface will help the product penetrate deeper into the concrete. In concrete polishing processes, surface cleaning should be done after all sequential diamond grits and #50, #100, #200 resin pad applications. The product should be applied to the surface by spraying and spread with a short-nap mop without allowing it to dry. During application, do not allow Lityofloor LSB 18 to pool and ensure it is evenly distributed with the mop. After application, wait 1 day for the chemical reaction to complete.

2 Consumption

60-100 g/m² (Consumption may vary depending on surface porosity and concrete quality)

3 Packaging

5 kg Plastic can
10 kg Plastic can
30 kg Plastic can

4 Storage Conditions and Shelf Life

- In unopened packaging, the product is valid for 12 months.
- Store the product protected from direct sunlight, between 5-35°C.
- Protect the product from freezing.
- After use, the container should be tightly sealed.
- The product should not be mixed with other chemicals.

5 Points to Consider

- Wear protective eyewear, gloves, mask, and clothing before application. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with water and seek medical attention.
- Do not dilute the product with solvent or water.
- Do not use to restore crumbled, weakened concrete.
- Second and third layers can be applied to highly absorbent surfaces. However, these applications should be done wet-on-wet, without allowing the previous layer to dry.
- Desired shine can be achieved immediately with a polishing machine.
- The lithium silicate-based surface hardener is not harmful to health once it has dried.



TECHNICAL DATAS

Binder	Lithium Silicate Salt
Color	Transparent
Solver	Water
Odor	Odorless
Density	1,10 Kg/ltr
pH	8,0
Full Drying Time	24 hours (24 °C Room temperature)
Solid Matter	12%
Flash Point	N/A
Freezing Point	+5 °C

Safety and Health Warnings

- Protective goggles, clothing, and gloves should be worn.
- Avoid contact with skin, eyes, and clothing.
- Prevent the product from spreading to the environment.
- Do not eat, drink, or smoke while using the product.
- Carefully package all containers and packages to minimize spills.
- Containers should be tightly sealed when not in use.
- Keep away from heat, sparks, flames, and hot surfaces.
- Do not handle broken packages without protective equipment. Do not reuse empty containers.
- If clothing becomes contaminated, it should be removed immediately and washed before reuse.
- Store the product in containers labeled with clear descriptions.
- Keep out of reach of children. Keep away from food, drinks, and animal feed.
- Keep away from oxidizing materials, heat, and flames.
- Store only in the original container.
- Store containers tightly closed, upright, in a cool, well-ventilated area.
- Protect containers from damage.

Note

The information provided in this product data sheet is given in good faith based on current knowledge and experience. If you are not satisfied after performing a surface test in a small area, please contact our technical service department immediately. The data on this page pertains only to the specified material and may not be valid for such material used in combination with any other material or in any process. Such information is correct to the best of the company's knowledge as of the date specified. Since the conditions of use are beyond our control, all recommendations are made without warranty or guarantee of accuracy, reliability, or completeness. It is the user's responsibility to ensure that this information is suitable and applicable for their own use. The manufacturer's liability is limited to the replacement of products proven to be defective.