

Denzi Block

Polymer Modified Lithium Silicate Concrete Densifier

Description

Denzi Block helps prevent blistering, swelling and peeling of waterproofing, paints and floor coatings that result from rising damp or vapor from negative side. It also helps prevent the “popping” of ceramic tiles and parquet flooring.

Denzi Block is a polymer-modified lithium silicate concrete primer and surface conditioner. It fills concrete pores and stops the capillary action that brings water and efflorescence to the concrete surface as well as vapor pressure from negative side. **Denzi Block** also reduces the risk of alkali-silica reactions (ASR).

Denzi Block can be applied any time after the concrete has fully set. And it can also be applied on green concrete that is still setting, where it acts as a curing compound.

Area of application

- As primer and surface conditioner before applying paints, waterproofing and floor coatings.
- On concrete: walls, floor, reinforced concrete water tank, basement, roof deck and terrace.

Rate of use

- 0.2 – 0.3 liters per sq.m. for one coat.
- 1 gallon (5 liters) covers approx. 20 sq.m., and 1 pail (20 liters) covers approx. 80 sq.m.

*The rate of use depends on the porosity of the concrete surface.

Method of application

1. Surface Preparation

- Concrete surfaces must be clean, strong, free of all loose dirt materials. Free from dust, oil stain, wax, concrete curing agent, grease or other stains that would affect penetration. Remove by scrubbing, sandblasting, high-pressure water jetting, or other appropriate methods.

2. Application

- Apply **Denzi Block** at 0.2–0.3 kg/sqm using a brush, roller or spray machine for 1 coat. Allow it to dry for approximately 2 hours before proceeding to the next step.

3. Cleaning

- Immediately wash equipment and tools with water after application.

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Precautions & Limitations

- Lithium silicate will freeze; it is recommended to store it in an area with a temperature between 5°C and 50°C.
- Do not allow puddling or apply in thick coats (maximum wet film thickness: 1 mm). Excessive thickness may cause skinning and prevent the coating from penetrating the concrete. Remove the skin to eliminate excess thickness.
- Lithium silicate is harmful if swallowed. Follow the recommended safety guidelines.
- Coverage rates depend on several factors, such as the application method, surface porosity, and the applicator.
- The use of highly alkaline or acidic cleaners on the treated surface is not recommended, as it may cause damage.
- Protect metal, glass, wood, brick, and painted surfaces. If contact occurs, wash immediately with clean water.

Technical Information

Properties	Method	Test Results
1. Appearance	-	Pink liquid
2. Solid Content	-	18.5 - 20%
3. (Brookfield RV#1, 100 rpm), cps	-	0
4. pH	-	10-11.5
5. Thermal Shock Test (3 cycles) Temperature -30°C - +30°C	-	No abnormality in appearance.
6. Testing hardened concrete depth of penetration of water under pressure	(BS EN 12390-8:2009)	10 Bar / No leakage. 15 Bar / No leakage. 20 Bar / No leakage.
7. Lead	%w/w of non-volatile matter	<0.001
8. Cadmium		<0.001
9. Hexavalent chromium		<0.0005
10. Mercury		<0.001

Drying and curing time

Substrate Temperature	10 °C	25 °C	30 °C	40 °C
Surface (touch) dry (hrs.)	1.5	1	45 min	40 min
Dry to overcoat, minimum (hrs.)	2.5	2	1	1
Dried/cured for service (days)	7	7	7	7

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Packaging

- 1 Liter, 5 Liter, 20 Liter

Shelf Life & Storage

- 1 year in a sealed container stored in a shaded and dry area.

Health & Safety Precautions

- Safe to use.
- Avoid contact with skin and eyes.
- Wear a respirator, goggles, and protective clothing.

Disclaimer

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