

Expanfloor* Lithurin Liquid

Hardening and dustproofing compound for concrete

Uses

As a surface hardener for new and old concrete floors to prevent dusting and to increase durability, suitable for use on concrete and granolithic surfaces, It is ideally suited for all types of concrete surfaces such as:

- Industry floor
- Car parks
- Warehouse floors and loading bays
- Concrete lining in canals & water channels
- Concrete pipes
- Work shop floors
- Precast concrete products

Advantages

- Simple brush, roller or spray application
- Prevents dusting by sealing the surface
- Highly durable, improves abrasion resistance and reduces chemical attack
- Easy to apply, no special equipment or skills required
- Economical and low cost method of floor/concrete protection.

Description

Expanfloor* Lithurin Liquid, a clear liquid based on sodium silicate and special additives, just required dilution with clean water and applied to concrete surfaces. The solution penetrates into concrete and reacts with the cementitious components leaving a permanent, hard wearing and dust free surface.

Technical support

Fospak Expanchem offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, the company offers a technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the country.

Properties

Penetration: Expanfloor* Lithurin Liquid is a penetrative resulting in a more durable finish better than that of other surface treatments which merely form a superficial skin.

Hardness: The surface hardness is achieved through a chemical reaction within the cementitious material.

Anti-dust: The chemical elimination of free lime and other soluble particles creates a tightly bound surface resistant to dusting.

Chemical resistance: Expanfloor* Lithurin Liquid application reduces the absorbency of the surface and improves resistance to solvents greases and commonly used chemicals.

Note:- Consult Fospak Expanchem technical service department for details on resistance to specific chemicals.

Instructions for use

Preparation

Surfaces to be treated with Expanfloor* Lithurin Liquid must be structurally sound and free from loose materials. Cracks/pits or holes can be repaired using a recommended repair material which should be allowed to cure prior to proceeding.

Oil and grease contaminated surfaces should be treated with a suitable chemical de-greaser followed by washing with clean water and allowed to dry.

Any laitance or existing coating must be removed prior to the application as these will prevent the solution from penetration.

New concrete floors must be cure for 14 days prior to treatment. Colored floors should be allowed to cure for 28 days prior to treatment and a small area tested with Expanfloor* Lithurin Liquid to assess the effect on the color.

Expanfloor* Lithurin Liquid must only be applied to dry surfaces to maximize penetration.

Mixing

Dilute in suitable metal containers 1 part of Expansfloor* Lithurin Liquid with 3 parts of clean water and stir until a smooth homogeneous consistency is achieved.

Application

Ensure that the surface to be treated is dry and apply the mixed Expansfloor* Lithurin Liquid at a rate of approximately 1 kg to every 10 m² using a soft broom / brush or spray, allow the solution to be absorbed into the floor for a period of up to 2 hours, any solution not absorbed after this period should be removed. Failure to do so will result in the formation of a weak, glossy surface film following the drying.

Normally two or three coats application is recommended for complete treatment, however, very dense, well trowel surfaces such as granolithic toppings, power floated or vacuum dewatered concrete will generally require only a single coat.

If a second application is necessary, reapply the solution after 24 hours ensuring that the surface is dry. All surplus solution must be removed as stated previously. The same procedure will apply for a third application if required.

Estimating

Supply

Expansfloor* Lithurin Liquid : 45 kg & 310 kg Drum

Coverage

Expansfloor* Lithurin Liquid : 10.00 m² /kg / coat
7.50 m² /kg for 2 coats
5.00 m² /kg for 3 coats

Note:- The coverage figures shown above are typical values, however, the degree of porosity will affect the actual coverage achieved on site.

Storage

When stored in dry conditions between 10°C and 30°C, away from sources of heat and naked flames, in the original unopened container, Expansfloor* Lithurin Liquid has a shelf life of 12 months. If stored at high temperatures the shelf life will be reduced. Expansfloor* Lithurin Liquid should be protected from frost.

Precautions

Health and safety

Expansfloor* Lithurin Liquid is alkaline and should not come into contact with skin or eyes or be swallowed. Wear suitable protective clothing, gloves, boots and eye/face protection.

After contact with skin, wash immediately with soap and plenty of water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention. If swallowed, do not induce vomiting seek medical attention immediately.

Fire

Expansfloor* Lithurin Liquid is non flammable

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