Talrak® Florsil

Sodium silicate based surface hardening and dust suppressant compound for concrete surfaces

The Construction Alchemists

Description

Talrak® Florsil is a sodium silicate based system developed for enhancing the service life of industrial floors. When sprayed on the concrete surface it penetrates in to the concrete through micro capillaries and improves the surface characteristics of the floor.
Talrak® Florsil provides excellent protection against surface deterioration and water penetration. It reacts with weak calcium hydroxide & calcium carbonate to densify them and rebonds to the concrete surface.

Features & Benefits

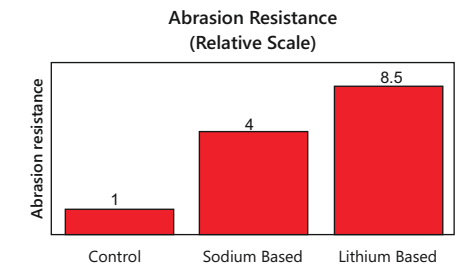
- Easy to apply. No special equipment or skills required
- Talrak® Florsil is an environment friendly product
- Seals micro-channels in concrete against water penetration and chemical attack
- Highly durable, improves abrasion resistance
- Provides efficient hardening and reduced dusting
- Nano size ensures deeper and stronger bonding with fresh or old concrete
- The surfaces can be used within 1day of application
- No problem of concrete sweating
- Free from the problem of peel-off and flaking

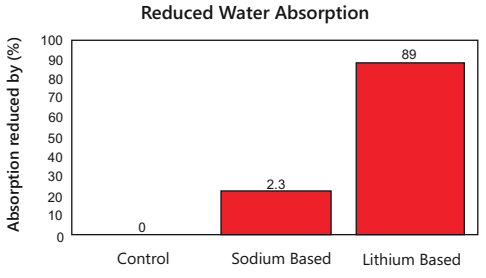
Primary Application

Talrak® Florsil is used for surface hardening of new and old concrete to prevent dust generation and to reduce wear, particularly on exposed concrete. Areas of application include warehouses, factories, platforms, car parks, corridors etc., on both new and existing concrete surfaces.

Technical properties

PH	11 - 12
Specific gravity	1.10 - 1.15
Viscosity	10 - 14 seconds





Product Versatility

Talrak® Florsil® is compatible with all types of cements such as OPC, PPC etc. Incase of pozzolanic cements, as free lime may be low, efficiency of the product should be ascertained by a site trial.

Anti-dust

The main source of dust, from otherwise sound concrete floors, is the liberation of free lime which has not been converted fully in the hydration process. This is often more predominant in vacuum de-watered floors in which excess moisture is sucked off the surface of concrete resulting in surface dessication causing dusting. By converting this free lime into a hard crystalline material, this source of dust is eliminated. At the same time, the resistance of the concrete surface to the penetration of oil and grease is considerably increased.

Application Instructions

Surface Preparation

The substrate shall be free from all dust, bond breaking materials, curing agents, form release oils, construction laitance by light mechanical grinding if required. Cleaning by wire brush is permitted. Clean the surface with a high pH detergent and wash thoroughly. The surface shall be saturated with water and later excess water has to be removed by industrial vacuum cleaning.

Application

A low pressure, high volume sprayer shall be used to apply Talrak® Florsil so as to form a glistening sheen and to ensure complete saturation of the surface. Enough Talrak® Florsil shall be applied to keep the surface wet for at least 20 minutes.
Spread the sprayed material with a lambswool roller once or twice and then stop spreading. If spread excessively, it tends to dry in streaks. After 20 minutes, the excess material shall be removed and the surface shall be allowed to dry for 1-2 hrs. The floor is ready to use after 24 hours. A light residue may form on the surface after the floor is dry. This is the excess material which is not absorbed by the floor and can be removed by a stiff broom or power sweeper.

Sealing / over-coating / stripping

Concrete floors treated with Talrak® Florsil can be sealed with any floor coatings after 24 hours. The treated surface can also be painted for isle marking as there will be no chemical incompatibility between Talrak® Florsil treated surface and these paints.

Maintenance

Floors treated with Talrak® Florsil benefit from good routine maintenance. Regular cleaning with a high pH detergent is recommended and can increase the surface texture. Tyre marks can be removed with a suitable cleaner. Oils and acids should be removed properly to prevent damage.

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Chemical Resistance

Concrete treated with Talrak® Florsil shall resist chemical attack by all the common industrial chemicals effectively. Extreme or prolonged exposures, especially to acids, may eventually cause some damage to concrete. However, concrete treated with Talrak® Florsil will be more resistant to staining.

Estimating
Packaging

Talrak® Florsil is supplied in 20 liter cans.

Coverage

1 litre of Talrak® Florsil will cover 10 sqm/coat. However, practical coverage may vary depending on the texture, porosity of substrate, surface irregularities, method of application etc.

Storage

Talrak® Florsil has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions
Health & Safety Instructions

Talrak® Florsil is non flammable and non toxic. It contains no solvents, or harmful levels of VOCs. It is not carcinogenic or mutagenic and may be used in food preparation areas. Talrak® Florsil is odourless during and after application and also allows concrete to breathe.

Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:
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