



SpEC Surface Hardener

SODIUM SILICATE BASED READY-TO-USE SURFACE HARDENING LIQUID

DESCRIPTION

SpEC Surface Hardener is a ready-to-use liquid applied to both new and old cementitious floors to improve abrasion and wear resistance, and to overcome dusting problems associated with poor mixes, over-troweling, etc.

TYPICAL USES

SpEC Surface Hardener may be used in applications where a dust-free and hard wearing surface is required on concrete, screed or other cementitious surfaces. Such applications include, but are not limited to:

- Concrete and screed surfaces in light storage, mechanical and industrial areas
- Concrete and screed floors below raised flooring
- Screed surfaces receiving subsequent wood flooring or soft covers such as carpet or vinyl
- Old cementitious surfaces where dusting is a problem

Note: SpEC Surface Hardener cannot be expected to make disintegrating concrete surfaces good, nor to improve the structural strength of the concrete or screed.

ADVANTAGES

- Good penetration into the concrete/screed surface
- Provides a dust-free and easy-to-clean surface
- Easy to apply with a squeegee or broom
- Ready-to-use - no mixing or preparation required

TECHNICAL DATA

Appearance	Hazy clear liquid
Specific gravity	1.05
Wear resistance*	+ 20 %

* Increase in wear resistance compared to untreated concrete used as control specimen.

APPLICATION

Surface preparation

Substrates must be sound, dry and free from dust, oil, grease and loose materials. New concrete and screed must be at least 21 days old before applying **SpEC Surface Hardener**. Any projections must be removed and holes, cracks, weak areas, etc repaired using **SpEC** repair materials. Consult our Technical Department for advice.

Application

Stir the contents of the drum before use to remix any crystallized settlement. Apply **SpEC Surface Hardener** using a watering can with a slow back and forth movement to soak the entire area. Spread the material evenly with a squeegee or a soft broom, paying attention to the low areas where puddles may form. Once the material has been absorbed into the surface, remove and re-spread any puddles to ensure even distribution and to avoid formation of hard crystals on the surface.

Apply the second coat after 24 hours in the same manner as the first. Normally a two-coat application is sufficient, but in highly absorbent surfaces a third coat may be necessary, applied 24 hours after the second.

A day after the final treatment, wash down the entire area with clean water and brush off any crystalline residue from the surface.

Important Notes:

- Do not leave more than 48 hours between coats
- Wash the area as directed not more than 24 hours after the final treatment
- The surface may receive traffic a day after the wash. Any small patches of crystalline residue will wear off with traffic and normal usage

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately with water.

PACKAGING & YIELD

SpEC Surface Hardener is supplied in 20 litre and 200 litre drums. Depending on the texture and porosity of the surface, the following spread rates would apply:

- Smooth and dense surfaces: 5m²/litre/coat
- Rough and porous surfaces: 3.5m²/litre/coat

STORAGE & SHELF LIFE

SpEC Surface Hardener has a shelf life of 24 months when stored in sealed containers in shaded, dry and cool conditions.

HEALTH & SAFETY

Provide protection from contact with skin and eyes. It is strongly recommended to wear gloves and goggles while using the product. Skin contact shall be washed with plenty of soap and water. Contact with eyes shall be washed immediately with copious amounts of clean water, followed by medical attention.

Dispose of all waste in accordance with the local environmental regulations.

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Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in any connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

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