

COOL BARRIER GRIP STF

Impregnation of Cementitious Flooring



Product description

Concrete or screed floors are growing in popularity but have an open-pore structure that is very susceptible to soiling. With COOL BARRIER GRIP STF, ABOLIN is now offering a novel Finish which performs as a highly efficient impregnating agent and as a thin dirt-repelling coating. It is based on a novel alpha-silane terminated polyether which can penetrate deep into the pores of a mineral substrate because of its low viscosity. There, it fills the pores and forms a thin, shiny film on the surface which provides effective protection against stains from substances containing water or oil. Red wine, coca cola, coffee, mustard, ketchup, and engine oil or tire marks can be wiped off easily.

Special features

COOL BARRIER GRIP STF is characterised by:

- good depth of penetration
- resistance to alkalis
- stain protection
- stable in storage
- high scrub resistance
- wide application spectrum
- solventless
- easy to apply

Application

COOL BARRIER GRIP STF can be processed into ready-to-use impregnating agent and thin coating for concrete and flowing-screed floors. As Impregnating agent is usually applied twice. The first coat applied strengthens the floor. A second produces a homogeneous surface that increases scratch and abrasion resistance and makes the floor polishable. It provides flooring with excellent stain protection and has a color-intensifying effect.

COOL BARRIER GRIP STF is suitable as an impregnating agent for treating cement-bound floors in industrial, commercial and private residential buildings. This includes, parking garages, car repair shops, train stations and logistics centers as well as show rooms, restaurants, event and convention centers, or museums.

Processing

COOL BARRIER GRIP STF is an alpha-silane-terminated polyether that cures on contact with moisture. Its chemical structure has been optimized to achieve low viscosity. As a result, the product penetrates deep into the pores of a cement-bound floor, filling the pores completely and forming a thin, shiny film on the surface. After the binder has cured, everyday substances containing water or oil are unable to enter the pores. The product therefore offers highly effective stain protection. Even substances that are left on the surface for some time can be removed without any lasting stains. It is possible to walk on or drive over the floors about twenty-four hours after treatment.

- Concrete should not be impregnated until at least four weeks after it has been produced so that the setting of the cement is not affected.
- New surfaces that are still unsoiled must be cleansed of coarse particles and dust deposits by sweeping or, if necessary, using compressed air. Surfaces already weathered, and those heavily soiled by oil, rubber residue, etc., must first be cleaned using superheated steam or high-pressure water before commencing treatment. It is imperative that the water used be siphoned off immediately to prevent saturation of the concrete.
- Impregnation should always be performed on superficially dry concrete, i.e., when the surface of the concrete appears evenly dry, no more damp patches are visible and the moisture content equilibrium is established. To this end, moisture in the surface zone of the concrete is measured using a suitable technique. The surface-zone moisture content of the concrete (from the surface to a depth of 20 mm) should not exceed 4 wt%.
- **1st application:** wiped or rolled layer is inhomogeneous after 1st application consumption: $\sim 50\text{-}150\text{ g/m}^2$
- **2nd application after 24h:** wiped or rolled layer very regular and homogeneous (further $\sim 20\text{-}50\text{ g/m}^2$)

Storage

The containers must be protected against sunlight.

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Abolin Co Greece subsidiaries.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		transparent liquid
Flash point		>100°C
Density at 25 °C		approx. 0,95 g/cm ³
Viscosity, dynamic at 25 °C	DIN 51562	75 mPas
VOC (Directive 2010/75 EU)		~0,5%, 6g/l

These figures are only intended as a guide and should not be used in preparing specifications

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to EN ISO 9001
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