

# EPO GUARD

Silane Terminated Coating



## DESCRIPTION

**EPO GUARD** is a silane-terminated ready to use coating based on  $\alpha$ -silane technology for the impregnation of mineral substrates or as a thin layer clear coating for concrete and wood.

$\alpha$ -silane-terminated polyether represent a noteworthy group of moisture curing binders that do not require tin catalysis.

**EPO GUARD** is available in transparent and UV resistant grades.

## USES

Formulations based on **EPO GUARD** are recommended for both interior and exterior applications such as;

- Stain-resistant impregnation and coating of mineral substrates, polished or non-polished concrete floors, paving stones, clinker, bricks and natural stone.
- Additionally, **EPO GUARD** can be used as a wood coating binder for interior use, e.g. parquet flooring and furniture.

## ADVANTAGES

**EPO GUARD** is characterized by:

- Low viscosity
- Solvent and plasticizer free
- Easy handling and dosing
- Resistant to moisture

## PRODUCT DATA

<b>Form</b>	Liquid
<b>Colour</b>	Clear
<b>Density@ 25°C</b>	1.10 ± 0.1 g/cm <sup>3</sup>
<b>Viscosity@ 25°C</b>	> 200 cPs
<b>Layer thickness</b>	1 <sup>st</sup> coat (dft): 40-50 Micron 2 <sup>nd</sup> coat (dft): 40-50 Micron
<b>Consumption</b>	0.045 to 0.055 kg/m <sup>2</sup> /coat (Recommended two coat application)
<b>Packing</b>	20 Kg
<b>Shelf Life</b>	12 months dry and cool, without opening package

Important note:-Total layer thickness must not exceed 100 microns

## APPLICATION

### SURFACE PREPARATION

Application of **EPO GUARD** as impregnation or floor coating, the surface must be dry and clean. To define the optimum amount and to check applicative behavior it is recommended to prepare a separate test surface. The material can be applied with a cleaning mop, shorthair roller or a brush. Airless spray application is equally possible.



## APPLICATION

For substrates with poor or no absorbency **EPO GUARD** can be applied as a clear coating. The layer thickness should not exceed ~ 50µm/coat to ensure full and complete cure. Depending on the absorbency behavior of the substrate ~ 0.045 – 0.055 kg/m<sup>2</sup> are typically required for the first coat and for the second coat ~ 0.045kg/m<sup>2</sup> needed.

Second coat normally recommended after 18 to 24 hours of first coat application and full cure is usually complete after 24 Hours. The open time of the formulation examples outlined here is ~ 30 min depending on temperature and humidity. Treated surfaces are trafficable and durable after 24 hours of final Application.

**Note:** Polishing is possible after 24 hours of Application. In the case of external coatings it is recommended to add UV stabilizers.

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Ver 01/21

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## STORAGE

Store in a dry and cool place. Protect against moisture. Store container in a well-ventilated place.

**EPO GUARD** formulations are sensitive towards moisture, however, stable in sealed packaging for at least 1 year.

## HEALTH AND SAFETY

**EPO GUARD** should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapors.

Some people are sensitive to product, gloves, goggles and a barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas use suitable breathing apparatus.

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