ECO FLOOR PROTECT

Two-component aliphatic PU topcoat, satin finish

2000 hrs	150–300 g/m²	50–60%	> 5 °C
QUV WEATHERING, PASSED	CONSUMPTION	SOLIDS CONTENT	APPLICATION TEMPERATURE

PROPERTIES AND BENEFITS

- Water-based
- Fast curing
- Prevents penetration of liquids and dirt
- Increases the strength of porous substrates
- UV-protective pigmented coat for self-levelling floors (polyurethane, epoxy, mineral)
- Easy to apply
- Long pot life
- Closes pores of the substrate
- Easy pigmentation with water-based pigment concentrates

DESCRIPTION

Eco Floor Protect is an aliphatic, satin-finish, water-based two-component polyurethane topcoat for the long-term protection of industrial and decorative flooring systems — particularly suited as a protective topcoat for epoxy, polyurethane and mineral self-levelling floors. It offers strong resistance to UV exposure, chemicals, water and mechanical abrasion, with very good stain resistance for hygiene-critical environments.

COLOUR

Satin finish. Eco Floor Protect is the topcoat of the system: the final layer, where the colour is set. Pigmented with 5–10% water-based pigment paste, it follows the NCS or RAL reference of the project, while protecting the mineral floor beneath.

RANGE OF USAGE

For indoor use: sealing of absorbent and sandy substrates in production areas and warehouses, and sealing and protection of previously created floor areas with Silicate Systems flooring products.

ECO FLOOR PROTECT

Technical information

PHYSICAL PROPERTIES

Solids content (in water)	50–60 %
Viscosity (Brookfield, ASTM D2196-86, @25 °C)	300–600 cP
Specific weight (ASTM D1475 / DIN 53217 / ISO 2811, @20 °C)	300–600 gr/cm³
Application temperature	> 5 °C
QUV accelerated weathering (ASTM G53, 4h UV @60 °C / 4h condensation @50 °C)	Passed 2000 hours

APPLICATION

Coats	1–2, depending on finish
Consumption	150–300 g/m² (min. 150 g/m²)
Mixing speed	300 rpm (low speed)

PACKAGING AND STORAGE

Packaging	4.8 kg combined (4 kg A + 0.8 kg B)
Storage	6 months
Storage temperature	10–25 °C, not below 0 °C

Store in dry, controlled temperate areas. Reseal opened containers immediately and use within a short time. The information above is based on our experience.

PREPARATION OF SUBSTRATE

Prior to application, ensure the substrate is dry, dust-free, clean, and free from any substances that could cause separation before coating. Chalking and strongly sandy components must be removed (suck off with an efficient industrial vacuum cleaner), and existing render and/or coatings removed. Use disposable shoe covers after cleaning to avoid dirt ingress.

ECO FLOOR PROTECT

Mixing and application

MIXING

Use a low-speed mixer (300 rpm). Add the second component and continue mixing for a few minutes.

APPLICATION

Apply with roller or spray. Avoid excessive rolling once material is applied, as roll marks may appear — the material dries relatively fast, so additional rolling after the first pass can cause surface defects. Ensure the first coat is completely dry before applying the second. For the protection of micro-cement or self-levelling mortars, a first coat of Eco Floor Protect (in its more anti-stain formulation) is recommended as a penetrating primer.

In high temperatures on concrete or cementitious substrates, dampen the substrate to increase working time. Because absorbency varies by substrate, a test application on a sample area is recommended. Impurities must be washed off immediately with water, and all tools cleaned between applications. Once the pot life is exceeded, the material's consistency and characteristics may change — dispose of any unused material.

TOOLS AND CLEANING

Brush, roller or spraying tools. All equipment should be washed clean and dried before and after application.

ECO FLOOR PROTECT

Notes and safety

SAFETY, ECOLOGY AND ELIMINATION

Eco Floor Protect is harmless after hardening. Refer to the Material Safety Data Sheet (MSDS), available on request, for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

AVAILABLE ON REQUEST

Material Safety Data Sheet (MSDS).

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. In particular, we assume no liability based on this information or any verbal statements. The only exception is when we can be blamed for the case of intent or gross negligence. In that case the customer has to prove that he has transmitted all required information completely and in a timely manner for a proper and promising evaluation by ETS Europe. Any further details regarding the application of our products have to be confirmed in writing by ETS Europe. The customer must test the product's suitability for the intended application and purpose. We reserve the right to change the product specifications due to the ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product.