

Epoxy primer for oil contaminated concrete floors and vapour barrier

Description

DUOPRIMER-SG is a 2-component epoxy system, suitable for wet substrates.

Due to its high density DUOPRIMER-SG displaces the water from the capillaries of concrete floors and acts like a protection against capillar rising oil and other chemical substances.

DUOPRIMER-SG is resistant to chemicals rising from the soil with an excellent bonding on wet concrete surfaces.

It is classified as SR-B2,0 according to EN13813.

Water-vapour permeability

- EN 12086: Sd > 1100 m
- EN ISO 7783-2: Class III (low)

Minimum hardening temperature: +8°C

Adhesive strength: 3 N/mm² (breaking point of concrete)

Cleaning of tools:

Tools should be cleaned with SM-12 solvent immediately after use.

Fields of application

It is used as a primer for oil contaminated, but cleaned concrete surfaces that will be covered with epoxy layers of DUROFLOOR system. Also it is suitable for substrates that are still damp or having problems with rising moisture.

Technical data

Basis:	2-component epoxy resin
Color:	light beige
Viscosity:	approx. 700 mPa·s at +23°C
Density:	1,75 kg/lit
Mixing proportion (A:B):	100:20 by weight
Pot life:	approx. 60 min at +23°C
Walkability:	after 24 h at +23°C
Successive layer:	after 24 h at +23°C
Final strength:	after 7 days at +23°C

Directions for use

1. Substrate

Oil contaminated surfaces should first be cleaned with an emulsifying cleaning agent (e.g. FD-CLEAN) in accordance with the application instructions. Subsequently the surfaces should be cleaned with a high pressure water jet pump. Then the generated wastes should be collected and removed.

DUOPRIMER-SG should be applied on a surface that it is still wet but its pores aren't fully saturated with water. This can be verified if, by slightly dampening the surface, the new quantity of water is fully absorbed by the substrate in short time. Should the surface get dry after the cleaning step, the oil rises up and prevents the bonding of DUOPRIMER-SG to the surface.

Note: Oil contaminated surfaces are particularly problematical. For more information we recommend that you consult our Technical Department.

Application of DUOPRIMER-SG on wet substrates or on substrates with rising moisture is possible only if the pores of the surface aren't fully saturated with water.

2. Mixing of the components

Components A (resin) and B (hardener) are packed in two separate containers, having the correct predetermined mixing proportion by weight. The whole quantity of component B is added into component A.

Mixing of the 2 components should take place for about 5 minutes, using a low revolution mixer (300 rpm). It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener.

3. Application

DUOPRIMER-SG is poured on the floor and is brushed thoroughly in order to penetrate into the substrate. Then it is rolled in order to distribute the material evenly on the surface of the floor.

The application of the qualified DUROFLOOR system follows within 24 hours and after the primer has hardened.

4. Consumption

Depending on the substrate and the way of application the consumption of DUOPRIMER-SG is between 600-1000 g/m².

Packaging

DUOPRIMER-SG is supplied in packages (A+B) of 10 kg, with components A and B having the fixed weight proportion.

Shelf-life - Storage

12 months from date of production if stored in original sealed packaging, in areas protected from humidity and direct sun exposure. Recommended storage temperature between +5°C and +35°C.

Remarks

- The workability of epoxy materials is affected by their temperature. The ideal temperature of application is between +15°C and +25°C so that the product will be easy to use and cure as prescribed. Room temperature below +15°C will expand the curing time and temperature above +30°C will accelerate the curing time. In winter time a mild preheating of the product is recommended, while in summer time to store the materials in a cool room before the application.
- Epoxy layers should be protected from moisture for 4-6 hours after application. Moisture may whiten the surface or/and make it sticky. It may also disturb hardening. Faded or sticky layers in parts of the surface should be removed by grinding or milling and laid again.
- In case that longer time than predicted interferes between the application of successive layers or in case that old floors are going to be laid again, the surface should be thoroughly cleaned and ground before application of the new layer.
- After hardening, DUOPRIMER-SG is totally safe for health.
- Before application, study the safety advice mentioned on the product's labels.

Volatile organic compounds (VOCs)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory h, type SB is 750g/l (2010) for the ready to use product.

The ready to use product DUOPRIMER-SG contains max <750 g/l VOC.

DUROPRIMER-SG



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EN 13813 SR-B2,0

Primer

Reaction to fire: NPD

Release of corrosive substances: SR

Water permeability : NPD

Wear resistance: NPD

Bond strength: B2,0

Impact resistance: NPD

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

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