

DUOPRIMER-SG

Epoxy primer for oil-contaminated concrete floors and vapor barrier

Description

DUOPRIMER-SG is a two-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 capillary rising oil and other chemical substances.

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

Certified according to EN13813 and classified as SR-B2,0. CE marked.

Fields of application

It is used as a primer for oil-contaminated concrete surfaces to be covered with epoxy coatings from the DUOFLOOR system (prior substrate cleaning is required). Also suitable for substrates that are still damp or have problems with rising damp.

Technical data

Base:	2-component epoxy resin
Color:	light beige
Viscosity:	approx. 700 mPa's at +23°C
Density:	1.75 kg/l
Mixing ratio (A:B):	100:20 by weight
Pot life:	approx. 60 min at +23°C
Walkability:	after 24 h at +23°C
Recoat time:	after 24 h at +23°C
Final strength:	after 7 days at +23°C
Water-vapor permeability	
• EN 12086:	Sd > 1100 m
• EN ISO 7783-2:	Class III (low)
Minimum hardening temperature:	+8°C
Adhesion strength:	3 N/mm ² (breaking point of concrete)

Cleaning of tools:

Tools should be cleaned with SM-25 solvent immediately after use.

Directions for use

1. Substrate

Oil-contaminated surfaces should first be cleaned with an emulsifying cleaning agent (e.g. FD-CLEAN) in accordance with 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 problematic. For more information we recommend that you consult our Technical Department.

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

2. Mixing of components

Components A (resin) and B (hardener) are packaged in two separate containers, having the correct predetermined mixing ratio by weight. The entire contents of component B is added to 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.

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3. Application

DUOPRIMER-SG is poured on the floor and is applied thoroughly in order to penetrate into the substrate. Then it is rolled in order to distribute the material evenly over 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 packaging (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 sunlight. 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 a mild preheating of the product is recommended, while in summer 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 recoat time is longer than expected or old floors are 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.
- Please consult the directions for safe use and precautions written on the packaging before use.

Volatile organic compounds (VOCs)

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

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

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DoP No.: DUROPRIMER-SG / 1817-01

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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BUILDING CHEMICALS AND MORTARS

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