

DUOPRIMER

Two-component epoxy primer

Description

DUOPRIMER is a 2-component, colorless epoxy system with solvents, offering high hardness and abrasion resistance. It is resistant to water, acids, alkalis, petroleum products, etc.

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

Fields of application

DUOPRIMER is used as a primer on cement-based substrates, e.g. concrete, cement-screed, etc., that are to be covered with epoxy resins of DUROFLOOR system.

Technical data

Basis:	2-component epoxy resin
Colors:	transparent
Viscosity:	120 mPa·s at +23°C
Density:	0.98 kg/l
Mixing ratio (A:B):	100:33.3 by weight
Pot life:	approx. 7 h at +20°C
Minimum hardening temperature:	+8°C
Walkability:	after 24 h at +23°C
Successive layer:	after 10-24 h at +23°C
Final strength:	after 7 days at +23°C
Adhesive strength:	> 3 N/mm ² (failure of concrete)

Cleaning of tools:
Tools should be cleaned with SM-12 solvent immediately after use.

Directions for use

1. Substrate

The flooring surface should be:

- Dry and stable.
- Free of materials that might impair bonding, e.g. dust, loose particles, grease, etc.
- Protected from underneath moisture attack.

Also, it should meet the following requirements:

Concrete quality: at least C20/25

Cement screed quality: cement content 350 kg/m³

Age: at least 28 days

Moisture content: less than 4%

According to the nature of the substrate, it should be prepared by brushing, grinding, milling, sand blasting, water blasting, shot blasting etc. Following this, the surface should be well cleaned from dust with a high suction vacuum cleaner.

2. Mixing of the components

Components A (resin) and B (hardener) are packaged in two separate containers, having the correct predetermined mixing ratio by weight. The two components are mixed in a clean and dry container – a mixing time of about 5 minutes with a low speed mixer (300 rpm.) is recommended. 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 – Consumption

DUOPRIMER is applied by roller, brush or spray in one layer.

Consumption: 200-300 g/m².

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

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In case that the DUROFLOOR system is going to be applied beyond 24 hours since priming, quartz sand with a particle size of 0.4-0.8 mm should be spread on the surface, while the primer is still fresh, in order to assure good bonding.

After hardening of DUROPRIMER, any loose grains should be removed using a high suction vacuum cleaner.

Packaging

DUROPRIMER is supplied in packages (A+B) of 3 kg and 9 kg, with components A and B having the fixed weight ratio.

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 time a mild preheating of the product is recommended, while in summer time to store the materials in a cool room before the application.
- DUROPRIMER contains solvents. In cases of application in closed rooms measures should be taken for good ventilation.
- Bonding between successive layers may be severely affected by moisture or dirt present between them.

- In case the waiting time between the applications of successive layers is longer than expected or old floors are to be overlaid again, the substrate should be thoroughly cleaned and ground before applying the new layer.
- 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.
- After hardening, DUROPRIMER is totally safe for health.
- Please consult the safety instructions 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 750g/l (2010) for the ready to use product. The ready to use product DUROPRIMER contains max <750g/l VOC.

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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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BUILDING CHEMICALS AND MORTARS

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