

2-component, solvent-free epoxy primer

Description

DUROPRIMER-PRO is a 2-component, solvent-free epoxy primer, offering high hardness and abrasion resistance. It is resistant to acids, alkalis, petroleum products and salt solutions. It is classified as SR-B2,0-AR0,5-IR4 according to EN13813.

Fields of application

- Priming of cementitious surfaces that will be covered with DUROFLOOR products.
- Preparation of flooring resin-mortars.
- Preparation of material for repairing cracks or smoothing substrates before applying flooring layers.

Technical data

Basis:	2-component epoxy resin
Color:	whitish
Viscosity:	1000 mPa·s at +23°C
Density (A+B):	1,49 kg/lit
Mixing proportion (A:B):	100:18 by weight
Pot life:	approx. 45 min at +20°C
Minimum hardening temperature:	+8°C
Hardness according to SHORE D:	82
Walkability:	after 20 h at +23°C
Successive layer:	after 20 h at +23°C
Final strength:	after 7 days at +23°C
Compressive strength: (EN 196-1)	45 N/mm ²

Flexural strength: (EN 196-1)	> 15 N/mm ²
Adhesive strength:	> 3 N/mm ² (breaking point of concrete)
Reaction to fire: (EN 13501-1)	F
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 prevent 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/m ³
Age:	at least 28 days
Moisture content:	less than 4%

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

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. Initially the component A must be stirred until it becomes homogenous. Then 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 thoroughly the mixture near the sides and bottom of the container, to succeed uniform dispersion of the hardener.

3. Application - Consumption

According to the kind of application of DUOPRIMER-PRO, the following cases are sorted out:

a) Priming

DUOPRIMER-PRO is applied by roller or brush in one layer.

Consumption: 250-400 g/m².

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

In case that the DUOFLOOR system is going to be applied beyond 24 hours since priming, quartz sand with a particle size of 0-0,4 mm or 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 DUOPRIMER-PRO, any loose grains should be removed using a high suction vacuum cleaner.

b) Resin-mortar

The surface should be primed with DUOPRIMER-PRO.

Consumption: approx. 250-400 g/m².

The mortar is prepared with proportions:

DUOPRIMER-PRO: 1 part by weight

Quartz sand: 1-4 parts by weight

Quartz sand should have particle-size 0,3-0,8 mm.

Mixing should take place using a heavy-duty concrete mixer, adding the quartz sand first and following with the already mixed DUOPRIMER-PRO resin (components A+B). It is important that sand and resin are thoroughly mixed.

The epoxy mortar is applied at a minimum thickness of 8 mm with the help of guides and compacted using a smoothing machine.

Resin-mortar consumption:

approx. 2,0 kg/m²/mm of layer thickness.

c) Repairing – Smoothing

Priming with DUOPRIMER-PRO should take place first.

Consumption: approx. 250-400 g/m².

The repairing material is prepared with proportions:

DUOPRIMER-PRO: 1 part by weight

Quartz sand: 1-3 parts by weight

Quartz sand should have particle-size 0-0,4 mm (or Q35) or 0-0,8 mm, depending on the layer thickness, and should be added into the already mixed resin (components A+B). It is important that sand and resin are thoroughly mixed.

The repairing material is applied on the surface in one layer.

Consumption: approx. 1,8 kg/m²/mm.

Packaging

DUOPRIMER-PRO 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.

DUROPRIMER-PRO



- Bonding between successive layers may be severely affected by the intervention moisture or dirt.
- 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, DUROPRIMER-PRO is totally safe for health.
- Before application, study the safety advice mentioned on the product's label.

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EN 13813 SR-B2,0-AR0,5-IR4 Synthetic Resin screed material for use internally in buildings	EN 13813 SR-B2,0 Primer
Reaction to fire: F Release of corrosive substances: SR Water permeability : NPD Wear resistance: AR0,5 Bond strength: B2,0 Impact resistance: IR4 Sound insulation: NPD Sound absorption: NPD Thermal resistance: NPD Chemical resistance: NPD	NPD SR NPD NPD B2,0 NPD NPD NPD NPD

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