

2-component, conductible epoxy varnish

Description

DUROFLOOR-CV is a 2-component, colored epoxy system with solvents, offering strong bonding to the substrate and good conductivity that prevents the accumulation of static electricity on surfaces. It has a conductivity resistance lower than 10^4 Ohm. It is classified as SR-B2,0 according to EN13813.

Fields of application

DUROFLOOR-CV is used as an intermediate layer of the epoxy system DUROFLOOR-C, to assure uniform conductivity on the whole floor surface.

Technical data

Basis:	2-component epoxy resin
Color:	black
Viscosity:	2.000 mPa·s at +23°C
Density (A+B):	1,23 kg/lit
Mixing proportion (A:B):	100:18,2 by weight
Pot life:	approx. 8 h at +20°C
Minimum hardening temperature:	+8°C
Walkability:	after 24 h at +23°C
Successive layer:	after 8-24 h at +23°C
Final strength:	after 7 days at +23°C
Adhesive strength:	> 3 N/mm ² (breaking point of concrete)
Conductivity resistance:	< 10^4 Ohm
Cleaning of tools:	Tools should be cleaned with SM-12 solvent immediately after use.

Directions for use

1. 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.

2. Application - Consumption

DUROFLOOR-CV is applied within 24 hours after priming with DUROFLOOR-PSF or DUROPRIMER epoxy primer and after the primer has hardened.

First, the special self-adhesive copper-bands (conductors) should be installed on the floor in a grid formation of at most 5m x 5m mesh and connected to the ground through a perimetrical cable.

Afterwards, DUROFLOOR-CV is brushed by roller in a thin layer.

Consumption: approx. 200 g/m².

DUROFLOOR-C should be applied within the following 24 hours.

Packaging

DUROFLOOR-CV is supplied in packages (A+B) of 8 kg, with components A and B having fixed weight proportions.

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.
- 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, DUROFLOOR-CV 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 j, type SB is 500g/l (2010) for the ready to use product.

The ready to use product DUROFLOOR-CV contains max <500 g/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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