Technical Datasheet

DUROFLOOR-BI

Two-component, colorless epoxy impregnation

Description

DUROFLOOR-BI is a two-component, colorless epoxy system with solvents. Thanks to its low viscosity, it can penetrate deep into the substrate and fill pores and hairline cracks. The impregnated surfaces become stable and durable, resistant to abrasion, frost and chemicals, especially to waste, mineral oils and petroleum products.
Certified according to EN 13813 and classified as SR-B2,0. CE marked.

Fields of application

DUROFLOOR-BI is used for in-depth impregnation treatment of cement-based substrates, e.g. old and new concrete, cement screeds or plaster, etc. Suitable for floors in car parks, warehouses, laboratories, industries, gas stations, auto repair shops, etc.
Also used as a primer for EPOXYCOAT, EPOXYCOAT-VSF and EPOXYCOAT-S epoxy coatings.

Technical data

Base:	two-component epoxy resin
Color:	transparent
Viscosity:	45 mPa·s at +23°C
Density (A+B):	0.92 kg/l
Mixing ratio (A:B):	100:29 by weight
Pot life:	approx. 10 h at +20°C
Volume solids:	~ 59%
Minimum hardening temperature:	+8°C
Walkability:	after 24 h at +23°C
Recoat time:	after 10-24 h at +23°C
Final strength:	after 7 days at +23°C
Abrasion resistance: (EN 13892-4, BCA)	≤ 50 μm, AR0.5
Adhesion strength:	> 3 N/mm^2 (breaking point of concrete)

Cleaning of tools:
Tools should be thoroughly cleaned with SM-27 special solvent immediately after use.

Directions for use

1. Substrate preparation
The flooring surface should be:

- Dry and stable.
- Free of materials that might impair bonding, e.g. dust, loose particles, grease, etc.
- Protected from negative water pressure.

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%

Depending on the nature of the substrate, it should be prepared by brushing, grinding and cleaning with a high-suction vacuum cleaner, etc.

2. Mixing of components
Components A (resin) and B (hardener) are packaged in two separate, pre-measured containers with fixed 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
DUROFLOOR-BI is applied with a roller, brush or spray in one or two layers, depending on the absorbency of the substrate. The second layer is applied 15 min after the first one.
Consumption: 150-250 g/m^2/layer.

DUROFLOOR-BI may be applied on new concrete (approx. 3 days old) because curing is not disturbed. It may also be applied to slightly wet substrates (moisture content up to 6%). In both cases a low impregnation depth is achieved.
If an impregnation depth of about 5 mm into concrete is required, moisture content should be less than 3%.

DUROFLOOR-BI

Packaging

DUROFLOOR-BI is supplied in 4 kg and 10 kg containers (A+B), with components A and B having a fixed mixing ratio by weight.

Shelf life – Storage

12 months from production date if stored in original, unopened packaging, in cool and dry conditions. Recommended storage temperature between +5°C and +35°C.

Remarks

- The workability of epoxy materials is affected by temperature. The ideal temperature of application is between +15°C and +25°C, for which the product obtains optimal workability and curing time. Room temperature below +15°C will extend curing time while temperatures above +30°C will reduce it. It is recommended to mildly preheat the product during winter, and store the product in a cool room before application during summer.
- DUROFLOOR-BI contains solvents. In case of application in confined spaces, measures for good ventilation should be taken.
- Non-uniform absorbency of the substrate may cause a non-uniform surface appearance after impregnation.
- Bonding between successive layers may be severely affected by moisture or dirt present between them.
- 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 hinder hardening. Faded or sticky layers in parts of the surface should be removed by grinding or milling and then laid again.
- In case recoat time (between successive layers) is longer than expected or in case old floors are to be overlaid again, the surface should be thoroughly cleaned and ground before applying the new layer.
- After hardening, DUROFLOOR-BI 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/EC (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 DUROFLOOR-BI contains a maximum of 750 g/l VOC.

CE

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

08

EN 13813 SR-B2,0

Synthetic Resin screed material for use internally in buildings

DoP No.: DUROFLOOR-BI/1821-01

Reaction to fire: NPD

Release of corrosive substances: SR

Water permeability: NPD

Wear resistance: NPD

Adhesion: B2,0

Impact resistance: NPD

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

ISOMAT S.A.
BUILDING CHEMICALS, MORTARS & PAINTS
HEADQUARTERS – THESSALONIKI, GREECE
17th km Thessaloniki – Ag. Athanasios Road
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece
T +30 2310 576000
www.isomat.eu e-mail: support@isomat.eu

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 27.01.2026