Technical Datasheet



## **EPOXYPRIMER 500**

### Two-component, water-based epoxy primer

#### Description

EPOXYPRIMER 500 is a two-component, water-based epoxy system. It provides high hardness and abrasion resistance.

It can be applied on dry or slightly damp substrates, without standing water.

Certified according to EN 13813 and classified as SR-B2,0. CE marked.

#### Fields of application

EPOXYPRIMER 500 is used as a primer of ISOFLEX-PU 500 and other polyurethane systems, when applied on non-absorbent substrates or old waterproofing layers.

It may also be used as a primer, as well as for preparing (with the addition of quartz sand) a repairing (filling) material for cement-based substrates, such as concrete or cement screeds, that will be covered with DUROFLOOR epoxy resins.

Technical data	
Basis:	two-component epoxy resin
Color:	yellowish
Viscosity (A):	900 mPa <sup>.</sup> s
Viscosity (B):	4,400 mPa <sup>.</sup> s
Viscosity (A+B):	8,000 mPa <sup>.</sup> s
Density (A):	1.1 kg/l
Density (B):	1.0 kg/l
Density (A+B):	1.02 kg/l
Mixing ratio (A:B):	25:75 by weight
Pot Life:	approx. 60 min at +20⁰C
Minimum hardening	
temperature:	+8°C
Walkability:	after 18 h at +23°C
Overcoat:	after 24 h at 23°C
Final strength:	after 7 days at +23°C

Adhesion:

> 3 N/mm<sup>2</sup> (breaking point of concrete)

Cleaning of tools: Tools should be

Tools should be cleaned with water immediately after use.

**Directions for use** 

#### 1. Substrate preparation

The substrates to be coated should be:

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

In case of applying epoxy resins from the DUROFLOOR system, they should meet the following requirements:

Concrete quality:	at least C20/25
Cement screed	
quality:	cement content
	350 kg/m <sup>3</sup>

In addition, substrates should be prepared by brushing, grinding, milling, sandblasting, water blasting, shot blasting, etc., depending on their nature. Then, 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 entire content of component B is added to component A. The two components should be mixed for about 2-3 minutes with a low speed mixer (300 rpm), until the mixture becomes uniform. It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener. The addition of water (10-30% by weight) will then ensure that the mixture obtains the desired workability.



### EPOXYPRIMER 500

#### 3. Application-Consumption

Depending on the application, EPOXYPRIMER 500 can be used in the following ways:

#### a) As a primer of ISOFLEX-PU 500

The substrate is primed with EPOXYPRIMER 500, thinned with water up to 30% by weight. The product is applied by brush or roller in one coat.

Consumption: 150-200 g/m<sup>2</sup>.

Depending on the weather conditions, ISOFLEX-PU 500 is applied within 24-48 hours from priming, as soon as the moisture content falls below 4%.

#### b) As a primer of epoxy resins

The substrate is primed with EPOXYPRIMER 500, thinned with water up to 30% by weight. The product is applied by brush or roller in one coat.

Consumption: 150-200 g/m<sup>2</sup>.

After the primer has dried, any existing imperfections (cracks, holes) should be filled with EPOXYPRIMER 500, mixed with quartz sand of 0.0-0.4 mm particle size (or Q35) in the ratio 1:2 up to 1:3 by weight.

The qualified system DUROFLOOR is applied within 24-48 hours from priming and just when the moisture content of the EPOXYPRIMER 500 layer falls below 4%. In case the moisture content of the EPOXYPRIMER 500 layer remains over 4% after 48 hours, the same procedure should be followed.

In case DUROFLOOR is to be applied beyond the above time limits, quartz sand of 0.4-0.8 mm particle size should be spread on the surface, while the primer is still fresh, in order to ensure good bonding. After the primer has hardened, any loose grains should be removed with a high suction vacuum cleaner.

#### Packaging

EPOXYPRIMER-500 is available in containers (A+B) of 1 kg, 4 kg, 10 kg and 20 kg, with components A and B at a fixed ratio by weight.

#### Shelf life – Storage

12 months from production date if stored in original unopened packaging, at temperatures between +5°C and 35°C. Protect from direct sunlight and frost.

#### Remarks

- It is recommended to check the compatibility with the substrate, before applying the product on plastic substrates (e.g. PVC, polycarbonate sheets).
- Working time of epoxy materials is affected by ambient 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 in the winter, and store the product in a cool room before application in the summer.
- In case recoat time (between successive layers) is longer than predicted 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, EPOXYPRIMER 500 is totally safe for health.
- Please consult the safety instructions written on the packaging before use.
- EPOXYPRIMER 500 is intended for professional use only.

Volatile Organic Compounds (VOC)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory j, type WB is 140 g/l (2010) for the ready-to-use product. The ready-to-use product EPOXYPRIMER-500 contains a maximum of 140 g/l VOC.





### EPOXYPRIMER 500

# CE

#### ISOMAT S.A.

17<sup>th</sup> km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

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#### EN 13813 SR-B2,0

#### DoP No.: EPOXYPRIMER 500/1832-01

Primer

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 AND MORTARS MAIN OFFICES – FACTORY: 17th km Thessaloniki - Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios Tel. 2310 576 000 Fax: 2310 722 475

www.isomat.eu e-mail: support@isomat.eu

The technical information and instructions supplied in this data sheet are based on the knowledge and experience of the Department of Research and Development 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 data sheet automatically cancels any previous one concerning the same product.

