

# DUOPRIMER-W

## Three-component, water-based epoxy primer

### Description

DUOPRIMER-W is a three-component, water-based epoxy primer featuring superior adhesion to wet substrates and great workability. Certified according to EN 13813 and classified as SR-B2,0. CE marked.

### Fields of application

For use on wet or new concrete floors (age < 28 days) to be covered with epoxy floor coatings from the DUROFLOOR range.

### Technical data

Chemical base:	2-component epoxy resin and aggregates
Color:	light yellow
Viscosity (A):	19,000 mPa.s
Viscosity (B):	900 mPa.s
Viscosity (A+B+C):	28,500 mPa.s
Density (A):	1.04 kg/l
Density (B):	1.13 kg/l
Bulk density (C):	1.05 kg/l
Density (A+B+C):	1.29 kg/l
Mixing ratio (A:B:C):	100:32:66 by weight
Pot life:	approx. 60 min at +23°C
Minimum hardening temperature:	+8°C
Walkability:	after 18 hours at +23°C
Recoat time:	after 24 hours at +23°C
Final strength:	after 7 days at +23°C
SHORE D hardness:	65
Compressive strength: (EN 13892-2)	≥ 4 N/mm <sup>2</sup>
Flexural strength: (EN 13892-2)	≥ 2 N/mm <sup>2</sup>
Adhesion strength:	> 3 N/mm <sup>2</sup> (failure of concrete)

Cleaning of tools:

Tools must be cleaned thoroughly with water or SM-25 solvent immediately after use.

### Directions for use

#### 1. Substrate

The surfaces to be treated must be:

- Stable and free of standing water.
- Free of materials that might impair adhesion, such as dust, loose particles, grease, etc.

Also the following requirements must be met:

Concrete quality: at least C20/25

Cement screed quality: cement content 350 kg/m<sup>3</sup>

Furthermore, depending on the nature of the substrate, proper preparation must be carried out, such as grinding, milling, shot blasting, etc. Then, the surface must be cleaned thoroughly with a high-suction vacuum cleaner.

#### 2. Mixing of DUOPRIMER-W

Components A (hardener), B (resin), and C (aggregates) are packaged in separate containers with predetermined mixing proportions.

First, the entire contents of component A is added to component B. Mixing of the two components should take place for approx. 5 minutes with a low-speed 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. Then, the mixture (A+B) is poured into a clean container, and component C is added under continuous stirring. Mixing is carried out with a low-speed mixer and continues until the mixture becomes completely homogeneous.

#### 3. Application - Consumption

At first, any cracks and imperfections are filled with DUOPRIMER-W (A+B+C). Once the filling material has set, DUOPRIMER-W diluted up to 20% with water is applied to the substrate with a brush or roller in 2 layers.

Consumption: 250-300 g/m<sup>2</sup>/layer.

After 48 hours and providing the moisture content of the DUOPRIMER-W layer is less than 4%, the application of a DUROFLOOR epoxy system may follow.

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## Packaging

DUOPRIMER-W is available in containers (A+B+C) of 21 kg in the following proportions:

Component A: 10.60 kg.

Component B: 3.40 kg.

Component C: 7.00 kg.

## Shelf life – Storage

24 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

- 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 prolong 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 the materials should be stored in a cool room before application.
- In case recoat time is longer than expected or old floors are to be overlaid again, the substrate should be thoroughly cleaned and ground prior to application of the new layer.
- After hardening, DUOPRIMER-W is completely safe for health.
- Please consult the directions for safe use and precautions 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 j, type WB, is 140 g/l (2010) for the ready to use product.

The ready-to-use product DUOPRIMER-W contains max. 140 g/l VOC.



### 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

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

### ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

#### MAIN OFFICES - FACTORY:

17th km Thessaloniki - Ag. Athanasios Road,  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,  
Tel.: +30 2310 576 002, Fax: +30 2310 576 029

[www.isomat.eu](http://www.isomat.eu) e-mail: [support@isomat.eu](mailto:support@isomat.eu)