

DUOPRIMER-W

Three-component, water-based epoxy primer

Description

DUOPRIMER-W is a 3-component water-based epoxy system. It provides superior bonding to the substrate on wet floors. It is classified as SR-B2,0 according to EN13813. CE marked.

Fields of application

It is used as a primer on wet or new concrete (age less than 28 days) that are to be covered with an epoxy layer of the DUROFLOOR system.

Technical data

Chemical basis:	2-component epoxy resin, aggregates
Color:	light yellow
Viscosity (A):	21,500 mPa.s
Viscosity (B):	19,500 mPa.s
Viscosity (A+B+C):	75,000 mPa.s
Density (A):	1.05 kg/l
Density (B):	1.01 kg/l
Bulk density (C):	1.05 kg/l
Density (A+B+C):	1.24 kg/l
Mixing ratio (A:B:C):	100:32:66
Pot life:	approx. 90 min at +20°C
Minimum hardening temperature:	+8°C
Walkability:	after 18 hours at +23°C
Successive layer:	after 24 hours at +23°C
Final strength:	after 7 days at +23°C
Adhesive strength:	> 3 N/mm ² (failure of concrete)

Cleaning of tools:
Tools must be cleaned thoroughly with water or SM-12 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 bonding, 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 ³

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

2. Mixing of DUOPRIMER-W

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

First, the whole quantity of component B is added to component A. Mixing of the two components should carry on for approx. 5 minutes with 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. Then, the mixture (A+B) is poured into a clean container, and component C is added under continuous stirring. Mixing is done with a low-revolution mixer and carries on until the mixture becomes completely uniform.

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 is applied with a brush or roller on the substrate, diluted 5-20% with water, in 2 layers.

Consumption: 250-300 g/m²/layer.

DUOPRIMER-W

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

Packaging

DUOPRIMER-W is available in packages (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, in temperature 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 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.
- In case the waiting time between the applications of successive layers is longer than expected or old floors are to be overlaid again, the substrate should be thoroughly cleaned and ground before applying the new layer.
- After hardening, DUOPRIMER-W 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/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory j, type WB is 140g/l (2010) for the ready to use product.

The ready to use product DUOPRIMER-W contains max <140 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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