Technical leaflet

DUROPRIMER-W

3-component, water-based epoxy primer

Description

DUROPRIMER-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.

Fields of application

It is used as a primer on wet or new concrete (age less than 28 days) that are going 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/lit
Density (B):	1,01 kg/lit
Bulk density (C):	1,05 kg/lit
Density (A+B+C):	1,24 kg/lit
Mixing ratio (A:B:C):	100:32:66
Pot life:	approx. 90 min at +20^{0}C
Minimum hardening temperature:	+8^{0}C
Walkability:	after 18 hours at +23^{0}C
Successive layer:	after 24 hours at +23^{0}C
Final strength:	after 7 days at +23^{0}C
Adhesive strength:	> 3 N/mm^2 (breaking point 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 could prevent 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 DUROPRIMER-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 in with DUROPRIMER-W (A+B+C). Once the filling material has set, DUROPRIMER-W is applied with a brush or roller on the substrate, diluted 5-20% with water, in 2 layers.

DUROPRIMER-W

Consumption: 250-300 g/m^2/layer.
After 48 hours and provided that the moisture content of the DUROPRIMER-W layer is less than 4%, the application of a DUROFLOOR epoxy system may follow.

Packaging

DUROPRIMER-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^{O}C and +35^{O}C. Protect from direct sun exposure 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 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, DUROPRIMER-W 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 WB is 140g/l (2010) for the ready to use product.
The ready to use product DUROPRIMER-W contains max <140 g/l VOC.

CE

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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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