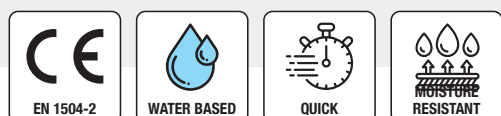


DUROGLASS FU RAPID

**2 COMPONENT RAPID WATER BASED MODIFIED EPOXY RESIN
SUITABLE FOR ADHESION ON HUMID CONCRETE SUBSTRATES UP TO 10
BAR OF BACK-PRESSURE**



CHARACTERISTICS

Solves humidity problems.

Excellent adhesion to all building materials used in the building industry such as: **concrete, natural stone, cement blocks.**

Forms an **effective water barrier** in counter-thrust.

Provides a **waterproof** layer.

Good ability to **seal the porosity** of the substrate.

Allows for **over application** with numerous finishing systems, both breathable and otherwise impermeable to water vapour.

Fast curing even at temperatures close to +5°C and in the presence of humidity.

The rapid hardening at temperatures close to +20°C allows several **daily over application.**

After hardening and treatment with suitable waterproof finishes, it **resists 10 bar of water back pressure.**

Contributes to obtaining credits for **LEED** certification.

It meets the requirements of the **1504-2** standard for coatings: Product for protection against penetration risks 1.3, humidity control 2.2, increase in resistivity.

APPLICATION TEMPERATURE

Applicable **from +5°C to +30°C** maximum on the substrate with R.H. 80% in the air.

OPERATING TEMPERATURE

Operating temperature **from -35°C to +110°C** (in air) + 65°C in water.

APPLICATION FIELDS

- DPM PRIMER SUITABLE for application on cementitious substrates.
- Can be used for scratch coats or roller applications.
- Can be finished with products from the STARFLEX, POLISTAR or ELASTOSTAR range.
- **Smoothing** of concrete floors before laying self-levelling layers.
- **Smoothing tiled surfaces** of terraces and balconies before laying self-levelling waterproofing layers.
- **Restoring and waterproofing treatments** suitable for containing water in canals, manifolds, pipes.

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SUBSTRATE PREPARATION

- The surfaces to be treated must be **sound, compact, free from dust and pollution** from foreign substances (dirt, oil, grease, release agents, etc.).
- The **cement substrate**, after adequate mechanical preparation, must have a surface resistance to tearing greater than 1.5 MPA, measured using suitable instruments.
- In the case of **ceramic substrates** or **old resinous coatings**, after adequate mechanical preparation, their correct adhesion to the substrate and the absence of traces of pollutants must be checked.
- Damaged **joints, holes** and other **irregularities** must be adequately levelled and repaired with **STARCEMENT 385** type epoxy grout, or **DUROGLASS P1/2** type epoxy mortar suitably loaded with quartz or **ADDENSANTE NT2**.

Roughen the substrate before laying. The choice of the mechanical preparation method (sandblasting, smoothing and shot peening or milling) is to be chosen on the basis of the conditions of the substrate and the type of coating to be used.

All preparations require adequate dedusting by means of aspiration. In the case of sanding and smoothing, washing with a washer-dryer is strongly recommended to eliminate residual dust and/or thin filler.

PRODUCT PREPARATION

Two-component product to be mixed thoroughly before use with a low-speed helical mechanical stirrer, operating as follows:

- Add component B with component A and mix until completely even for **3** minutes.

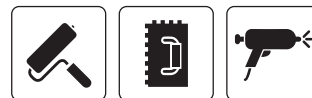
DILUTION

Depending on the intended use, after mixing, dilute the product with water if necessary, while stirring:

- add 10% to 15% by weight of water.

The dilution and addition of fillers must be carried out after complete mixing of the two components, homogenizing with the same stirrer.

DUROGLASS FU RAPID



PRODUCT APPLICATION

DUROGLASS FU RAPID can be applied in one or more coats by:

- Roller
- Trowel
- Airless trowel

Depending on the desired thickness, the **DUROGLASS FU RAPID** product can be applied with an indicative consumption of 0.4 to 0.8 kg/m² per coat.

Depending on the uses, it is possible to load the product with 0.1 – 0.3 mm quartz sand up to 10%. The applied layer can be further treated with quartz dusting 0.1 – 0.3 mm to saturation.

It is essential to apply a sufficient quantity to avoid that there are through micro-holes.

OVER APPLICATION

The cured and dry layer of **DUROGLASS FU RAPID** can be covered directly with any type of epoxy coating with or without solvent.

In any case, polyurethane and polyurea coatings such as **ELASTOSTAR T/1**, **POLISTAR** and **STARFLEX** require the prior application of an epoxy primer such as **DUROGLASS FF4416**, **DUROGLASS P2 PRIMER** or **DUROGLASS P1/2**.

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WARNINGS AND PRECAUTIONS

- During the application of **DUROGLASS FU RAPID**, no water must reach the surface from substrate seepage, the environment or washing residuals. In these cases, appropriate measures must be taken. The purpose of the treatment with **DUROGLASS FU RAPID** is that of a continuous and homogeneous base layer which allows, where required, the insulation from the water contained in the building material or derived from counterthrust.
- Inadequately treated cracks and lesions can affect the final coating, especially if not endowed with elasticity.
- For worsening humidity conditions of the substrate and environmental conditions, we recommend waiting times of even up to 6 days and the application of two or more layers of product until complete drying values are reached, detectable with a contact hygrometer, before any further finish with coatings.

SAFETY AND CLEANLINESS

When applying these products, it is recommended to use goggles, masks and rubber gloves and all the PPE required by current regulations.

Clean the tools thoroughly after use with water or **DILUENTE 21**.

For more information regarding the precautions for use, please refer to the safety data sheet.



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DUROGLASS FU RAPID

TECHNICAL DATA		
Colour		Dark grey
Specific weight	UNI EN ISO 2811-1	1,60 ± 0.05 Kg/l
Mix ratios		100 parts by weight basis 100 parts by weight of hardener
Viscosity at 20°C	EN ISO 2555	35000 ± 7000 mPa·s
Pot life 22°C	UNI EN ISO 9514	50 ± 10 minutes
Non-volatile substances	EN ISO 3251	85 %
Curing at 22°C, 50% R.H.		- dry to the touch: 2 hours - rain resistance: 3 hours - over application 4 hours - fully cured: 15 days
Permeability to carbon dioxide	EN 1062-6	SD > 50m
Permeability to water vapour	UNI ISO 7783-2	Sd < 5 m
Capillary absorption and water permeability	EN 1062-3	W < 0.1 kg/m ² · h ^{0.5}
Adhesion strength to direct tensile stress	UNI EN 1542	> 3,0 MPa
Compatibility with Green concrete	EN 13578	No swelling, no cracking, no flaking > 3,5 MPa
Resistance to reverse hydrostatic pressure	UNI 8298 p.8	250 kPa: no water passage
Storage		The product in its original sealed packaging kept in a dry and protected place at temperatures between +5°C and +35°C will keep for 12 months. Keep away from frost.

The data and instructions given in this sheet, based on the best practical and laboratory experiences, are to be considered in any case indicative. Considering the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical laying direction, etc.) whoever intends to use it is required to establish whether or not the product is suitable for use. Our warranty obligation is limited to the quality and constancy of the finished product for the above data, only for technical sheets accompanied by stamp and countersignature by our delegated personnel. site. Furthermore, the customer is required to verify that these values are valid for their relevant batch of product and are not superseded and/replaced by subsequent editions and/or new formulations. The data contained may vary at any time without prior notice by MPM.