

DUROGLASS FU MALTA

**WATERPROOF MORTAR BASED ON EPOXY RESINS
IN AQUEOUS DISPERSION, HYDRAULIC BINDERS
AND SELECTED SILICA INERT**



CHARACTERISTICS

Structurally adheres to concrete, brick and stone materials, even when damp.

Can be applied in thicknesses **from 2 mm to 10 mm** in one or two coats.

Resists water back pressure **up to 7 bar**.

Waterproofs and **protects** treated surfaces even from aggressive solutions.

Resists **thermal shock**.

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

Meets the requirements of standard **1504-2** for coatings: product for moisture control 2.2, chemical resistance 6.1, increase in resistivity.

APPLICATION TEMPERATURE

Applicable **from +5°C to +45°C** with relative air humidity < 90% on the substrate.

OPERATING TEMPERATURE

Operating temperature **from -35°C to +100°C**.

FIELD OF APPLICATION

- **Levelling, waterproofing** and **protection** of degraded or uneven concrete surfaces, with exposed aggregates, crawl spaces, construction joints.
- Levelling of jointed surfaces.
- **Levelling and anti-humidity treatment** of brick or stone walls before plastering.
- **Repair of damaged** concrete flooring.
- **Coating of tanks, basins**, pipes, concrete tunnels for the containment, collection and conveyance of water and urban wastewater.

DUROGLASS FU MALTA

PREPARATION OF THE SUBSTRATE

- The surfaces to be treated must be **sound, compact, free from dust and pollution** from foreign substances (dirt, oil, grease, release agents, etc.).
- After adequate mechanical preparation, the **cementitious substrate** must have a surface tear strength greater than 1.5 MPA, measured using suitable instrumentation.
- In the case of **ceramic substrates or old resinous coatings**, after adequate mechanical preparation, the correct adhesion of the same to the substrate and the absence of traces of pollutants must be verified.
- Damaged **joints, holes** and other **irregularities** must be properly levelled and repaired with epoxy putty such as **STARCEMENT 385**, or epoxy mortar such as **DUROGLASS P1/2** suitably filled with quartz or **ADDENSANTE NT2**.

In the case of **vertical surfaces** (tanks, swimming pools, reservoirs, etc.) the preparation can be carried out by dry or wet sandblasting, or high pressure (300 bar) water jetting.

It is essential to **roughen the surface** before laying. The choice of mechanical preparation method (sanding, shot peening or milling) depends on the conditions of the support and the type of coating to be used.

PRODUCT PREPARATION

A **three-component** product to be mixed thoroughly before use with a low-speed helical agitator, proceeding as follows:

- Add and mix component B with component A.
- Add component C while stirring to avoid the formation of lumps and mix until completely homogenised.

DILUTION AND COLOURING

Depending on the type of use and the problems to be solved, the product can be used as it is or diluted with **water** in percentages varying between 5 and 10%.

Dilution must be carried out after complete mixing of the two components, homogenising with the same agitator.

DUROGLASS FU MALTA



PRODUCT APPLICATION

DUROGLASS FU MALTA can be applied using:

- Airless spray (using equipment for cement-based products such as TURBOSOL or PUTZMEISTER)
- Trowel (reducing the amount of water until the desired consistency is obtained)
- Brush (increasing the dilution)

DUROGLASS FU MALTA can be applied with an indicative consumption of 2.1 kg/m²/mm.

OVER-APPLICATION

DUROGLASS FU MALTA can be used alone or covered with epoxy or elastomeric cycles, depending on the case.

WARNINGS AND PRECAUTIONS

- During application of **DUROGLASS FU MALTA**, the presence of free water percolating from the substrate, from the environment or residual from washing operations is not allowed on the surfaces. In these cases, appropriate measures must be taken. The purpose of treatment with **DUROGLASS FU MALTA** is to create a continuous and uniform base layer that allows, where required, isolation from the water contained in the construction material.
- Cracks and lesions that are not adequately treated can affect the final coating, especially if it is not elastic.

SAFETY AND CLEANING

When applying these products, we recommend the use of goggles, masks and rubber gloves, as well as all PPE required by current regulations.

After use, tools must be thoroughly cleaned with **warm water**.

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



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TECHNICAL DATA		
Colour		Grey
Specific weight	UNI EN ISO 2811-1	2.05 ± 0.05 kg/l
Pot life at 22°C	UNI EN ISO 9514	75 ± 10 minutes
Theoretical consumption		2,1 Kg/m ² /mm
Hardening at 22°C, 50% R.H.		- dry to the touch: 4 hours - rainproof: 5 hours - can be covered: 72 hours minimum - fully hardened: 28 days
Permeability to water vapour	EN 7783-1	Sd < 5 m
Capillary absorption and water permeability	EN 1062-3	w < 0,1 kg/m ² x h ^{0.5}
Adhesive strength for direct traction	UNI EN 1542	> 4,0 MPa
Resistance to compression	EN 13892-2	46 ± 2 MPa
Resistance to bending	EN 13892-2	9 ± 1 MPa
Resistance to thermal shock	EN 13687-5	No surface alteration, no cracking, no crazing, no blistering > 3,8 MPa
Compatibility with damp concrete	EN 13578	No swelling, no cracking, no flaking > 3,6 MPa
Resistance to severe chemical attack	EN 13529	20% sodium chloride: Class I and II
Storage		The product in the original sealed packaging, stored in a dry and protected place at temperatures between +5° C and +35°C, can be kept for 12 months. Protect from frost.

CR12: 20% sodium chloride

The data and instructions provided in this sheet, based on the best practical and laboratory experience, 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 direction of installation, etc.), those who intend to use it are required to establish whether the product is suitable for the intended use or not. Our warranty obligation is limited to the quality and consistency of the finished product for the above data, only for technical data sheets stamped and countersigned by authorised personnel from our headquarters. Furthermore, the customer is required to verify that these values are valid for the product batch of interest and have not been exceeded and/or replaced by subsequent editions and/or new formulations. The data contained herein may vary at any time without prior notice from MPM.