

DUROGLASS R 16

NON-TOXIC COATING BASED ON EPOXY RESINS AND POLYAMINE HARDENERS
SUITABLE FOR THE CONTAINMENT OF FOODSTUFFS ACCORDING TO D.M. 34 OF 21/3/73
SO GU N°104 OF 20/04/73 AND SUBSEQUENT UPDATES AND EUROPEAN DIRECTIVES



CHARACTERISTICS

Suitable for containing **oil, milk, wine, beer, canned food, drinking water.**

Suitable for the containment of **waste water.**

Suitable for containing all types of **fuels** and **mineral oils.**

Chemically resistant to acid and alkaline solutions.

Smooth and glossy surface that is **easy to clean.**

Food grade certified.

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, chemical resistance 6.1, increase in resistivity 8.2.

APPLICATION TEMPERATURE

Applicable **from +10°C to +30°C.**

OPERATING TEMPERATURE

Operating temperature **from -10°C to +45°C** (in air).

APPLICATION FIELDS

- **Glazing**, protective coating for the inside of containers intended for the **containment of aggressive liquids or solids** in the food and chemical industries.
- **Internal protective coating for tanks and containers** intended to contain drinking water and wine, oil, beer, milk, preserves, etc.
- **Protection of tanks, basins, pipes, silos**, concrete and carbon steel **pipes**, collectors, channels, purification plants, aqueducts.

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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.
- In **tanks** that have already been in use for some time, before any operation it is essential to eliminate deposits of salts, moulds, incrustations by proceeding with the elimination of the previous non-adhering coatings. The old coating, provided that it adheres, must be vigorously abraded.
- **Steel surfaces** must be dry blasted to **SSPC-SP10** to grade **Sa21/2**. In case there is a surface bead, it must be removed or the surface to be treated must be left to rust and then sandblasted or sandblasting can be done immediately. Particular care must be paid to welds that must be abraded or treated with **DUROGLASS FF 4416**.

Roughen the surface before laying. The choice of the method of mechanical preparation (hydro-washing, sand-blasting, sanding) is to be chosen on the basis of the conditions of the substrate and the type of coating to be used.

Primer for cement substrates: always apply at least two coats of **DUROGLASS FU BIANCO TIX** or **DUROGLASS FU RAPID**, bearing in mind the recommendations in the technical data sheet in the presence of damp or counterthrust surfaces.

Primer for metal substrates: after preparation by sandblasting, it is advisable to apply a coat of **DUROGLASS FF 4416**.

PRODUCT PREPARATION

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

- Add and mix component B with component A and mix until completely homogenized.

DILUTION

Depending on the type of application, the product can be diluted with a maximum of 2% **food grade ethyl alcohol**.

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PRODUCT APPLICATION

DUROGLASS R 16 can be applied by:

- Roller
- Brush
- Airless spray (0.015-0.024 inch nozzles, 250 bar pressure, 60-1 compression)

Depending on the desired thickness, the **DUROGLASS R 16** product can be applied with an indicative consumption of 0.6 to 0.8 kg/m² per coat.

WARNINGS AND PRECAUTIONS

- Given the reactivity of the product, the application operations must be performed quickly.
- The application of the second layer of the product must be carried out within the following 36 hours.
- After curing at 20°C and before putting the product into service, it is essential to carefully wash it with water with 5-10% soda and rinse thoroughly with warm water.
- Given the rapidity it is advisable to apply the product with airless bi-mixer equipment.

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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TECHNICAL DATA		
Colour		Yellow
Specific weight	UNI EN ISO 2811-1	1,24 ± 0.05 Kg/l
Mix ratio		100 parts by weight basis 50 parts by weight of hardener
Viscosity at 20°C	EN ISO 2555	50000 ± 10,000 mPa.s
Pot life 22°C	UNI EN ISO 9514	25 ± 5 minutes
Adhesion strength to direct tensile stress	EN 1542	> 3,5 MPa
Non-volatile substances	EN ISO 3251	> 99 %
Curing at 22°C, 50% R.H.		- dry to the touch: 5-6 hours - over application 8 hours - 24 hours - fully cured: 10 days
Chemical-resistant	EN 13529	Mixture of hydrocarbons: Class II Methanol: Class II Sulphuric acid 20%: Class I Sodium hydroxide 20%: Class II Sodium chloride 20%: Class II Surfactants: Class II
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.

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.