DUROGLASS FU BIANCO TIX

3 COMPONENTS SPECIAL PRIMER EPOXY WATER BASED FOR THE PREPARATION OF THE SUBSTRATES INCLUDING WET ONES.

EN 1504-2 | WATER BASED | WET SUBSTRATE | LOW VOC

FEATURES

Adheres to both compact and porous building materials, even when wet, and to uncured concrete.
Forms an effective barrier a**gainst water under pressure.**
Provides a waterproof layer that is **breathable to water vapor**.
Can be applied with ease both **indoors and outdoor.**
Can be overcoated with multiple finishing layers, both breathable and differently waterproof to water vapor.
It can be applied in enclosed and poorly ventilated environments as **it is solvent-free.**
After curing and treatment with suitable waterproof finishes, it resists 10 bar **of water backpressure**.
Contributes to earning credits for **LEED certification.**
Complies with the requirements of standard **1504-2** for coatings: product for protection against penetration risks 1.3, moisture control 2.2, and increased resistivity.
Shield against the spread of **radon gas**.

APPLICATION TEMPERATURE

Can be applied **from +5° C to +45° C** with a maximum relative **humidity of 85%** on the substrate.

OPERATING TEMPERATURE

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

APPLICATION FIELDS

- General-purpose primer for the protection of **cementitious substrates.**
- **Treatment of wet cementitious** surfaces to achieve the bonding of continuous resin flooring or discontinuous slab flooring, provided that suitable adhesives are used.
- **Treatment of wet cementitious** surfaces to achieve the bonding of protective, anticorrosive, and waterproof coatings.
- **Preparation of damp masonry** to achieve the bonding and insulation of plasters and coatings, or as a direct anti-moisture treatment.
- **Encapsulating and consolidating treatment** on fireproof coatings, insulation, and asbestos-containing flooring.
- **Leveling** and removal of surface defects on formwork concrete.
- **Repair and filling** of uneven surfaces.
- **Smoothing** of concrete floors before the application of self-leveling layers.
- **Leveling and waterproofing treatments** suitable for water containment in channels, sewers, and pipelines.

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SUBSTRATE PREPARATION

- The substrates to be treated must be sound, compact, free from dust, and free of contamination from foreign substances (dirt, oil, grease, release agents, etc.).
- **The cementitious substrate,** after adequate mechanical preparation, must have a surface tensile strength greater than 1,5 MPa, measured using appropriate equipment.
- In the case of **ceramic substrates or old resin coatings,** after adequate mechanical preparation, the correct adhesion to the substrate and the absence of contaminant traces must be verified.
- Deteriorated joints, holes, and other irregularities must be properly leveled and repaired with epoxy putty such as **STARCEMENT 385**, or epoxy mortar like **DUROGLASS P1/2**, suitably loaded with quartz or **ADDENSANTE NT2.**
- In the case of vertical surfaces (tanks, pools, reservoirs, etc.), preparation can be carried out using dry or wet sandblasting, or high-pressure water jetting (300 bar).

t is essential to roughen the surface before application. The choice of mechanical preparation method (sandblasting, sanding, grinding, shot blasting, or milling) should be based on the condition of the substrate and the type of coating to be used. All preparations require adequate dust removal through suction. In the case of sanding and grinding, it is strongly recommended to wash the surface with a floor cleaning machine to eliminate residual dust and/or fine fillers.

PRODUCT PREPARATION

Three-component product to be mixed thoroughly before use with a low-speed mechanical helical agitator, following the procedure below:

- Add and mix component B into component A
- Add component C while stirring to avoid lump formation and mix until complete homogenization

DILUTION

Depending on the intended use and the issues to be addressed, the product can be used as is, diluted with water in varying percentages between 5% and 15%, or loaded with quartz 0,06/0,25 mm (S1) or 0,1-0,3 mm.

Dilution and the addition of fillers should be carried out after complete mixing of the two components, homogenizing with the same agitator.

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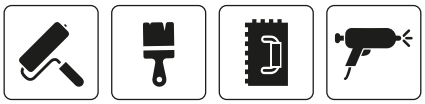

APPLICATION PRODUCT

DUROGLASS FU BIANCO TIX can be applied by:

- Roller
- Brush
- Spatula
- Use piston pumps 45/60:1 with adjustable tungsten carbide nozzles (0.025” - 0.029”) and pressures around 250 bar, using the product diluted with 5-10% water.

- **Regular surfaces:** In the case of regular and normally damp surfaces, it is generally sufficient to apply one layer of the product diluted with 8-10% water, with a consumption of **0,5 kg/m².**

- **Irregular surfaces**: In the case of irregular surfaces, the consumption may be increased proportionally up to 1,5 kg/m², while proportionally reducing the amount of dilution water.

- **Irregular surfaces or tiles:** In case a leveling skim coat is required with thicknesses up to 1 mm per pass, the product must be loaded with spherical quartz 0,06/0,25 mm or 0,1/0,3 mm in a 1:0.5 ratio, and diluted with 5-8% water. The same system can be used for leveling ceramic coatings. Product consumption may vary from 0,8/1,2 kg/m² per coat.

In the case of very damp surfaces and against water pressure, always apply a second layer of **DUROGLASS FU BIANCO TIX** after the leveling coat, with a consumption of 0,5 kg/m².

No treatment with DUROGLASS FU BIANCO TIX should be covered before 48 hours under ideal conditions (+20° C, 60% RH) or before it shows complete drying, to be verified with a contact hygrometer. If, after this check, the moisture is still high, additional layers may be required.

OVERAPPLICATION

The cured and dry layer of **DUROGLASS FU BIANCO TIX** can be directly covered with any type of epoxy coating, with or without solvent.
Polyurethane and polyurea coatings, such as **ELASTOSTAR T/1, POLISTAR, and STARFLEX,** always require the prior application of an epoxy primer, such as **DUROGLASS FF4416.**

Bonding of discontinuous flooring: This must always be done using two-component epoxy or **epoxy-polyurethane adhesives.**

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WARNINGS AND PRECAUTIONS

- During the application of **DUROGLASS FU BIANCO TIX**, the presence of free water percolating from the substrate, the environment, or residual water from cleaning operations on the surfaces is not permitted. In such cases, appropriate precautions must be taken. The purpose of the treatment with **DUROGLASS FU BIANCO TIX** is to create a continuous and homogeneous base layer that, where required, provides isolation from water contained within the construction material.
- Cracks and untreated lesions may affect the final coating, especially if it is not elastic.
- For worsening substrate and environmental humidity conditions, it is recommended to wait up to 6 days and apply two or more layers of the product until achieving complete drying, which can be verified using a contact hygrometer, before applying any further finishes or coatings.

SAFETY AND CLEANING

During the application of these products, it is recommended to use goggles, masks, rubber gloves, and all personal protective equipment (PPE) required by current regulations.
After use, tools should be thoroughly cleaned with warm water or DILUENT 21.
For further information regarding safety precautions, please refer to the safety data sheet.

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TECHNICAL DATA		
Color		White
Specific weight	UNI EN ISO 2811-1	1,60 ± 0,05 kg/l
Pot life at +22° C	UNI EN ISO 9514	40 minutes
Viscosity at +20° C	EN ISO 2555	15000 ± 3000 mPa·s
Mixing ratio		100% in weight of component A 31% in weight of component B 135% in weight of component C
Curing time at +22° C, 50% U.R		- tack free: 40 minutes - Rain safe: 9 hours - Overapplication: 48 hours minimum - completely cured: 15 days
Permeability to carbon dioxide	EN 1062-6 (metodo A)	Sd > 50 m
Permeability to water vapor	UNI ISO 7783-2	Sd < 5 m
Coefficient of radon gas diffusion	ISO 11665-13	$8 \cdot 10^{-8}$ m^2/s
Capillary Absorption and Water Permeability	EN 1062-3	$W < 0,1$ $kg/m^2 \cdot h^{0,5}$
Direct Tensile Bond Strength	UNI EN 1542	> 3,0 MPa
Resistance to Reverse Hydrostatic Pressure	UNI 8298 p.8	250 kPa: nessun passaggio d'acqua
Compatibility with Wet Concrete	EN 13578	No swelling, no cracking, no chipping > 3,5 MPa
Determination of Global Migration	UNI EN 1186-1	< 1 mg/dm^2 Simulante: Etanolo 20%
Determination of Global Migration	UNI EN 1186-1	< 1,9 ± 0,5 mg/dm^2 Simulante: Acido acetico 3%
Dye Migration	UNI EN 1186-5	100 ±0,5% acido acetico 3% etanolo 20%
Storage		The product, when kept in its original sealed packaging in a dry and protected location at temperatures between +5° C and +35° C, has a shelf life of 12 months. It is sensitive to freezing.