

Hydro Bielasto 200

Two-component, flexible, thixotropic cementitious mortar, certified according to UNI EN 1504-2 and UNI EN 14891, for the protection and waterproofing of concrete substrates, balconies, terraces, bathrooms and swimming pools before laying ceramic floor and wall tiles.

Hydro Bielasto 200 is a two-component, flexible, cementitious mortar, specifically for waterproofing and protecting concrete structures, plaster and cement-based screeds. Resulting from research by **Licata S.p.A. labs**, **Hydro Bielasto 200** has high flexibility, strength, binding power and superficial mechanical resistance. **Hydro Bielasto 200** can be applied both with a float and airless sprayer, horizontally and vertically. **Hydro Bielasto 200** is certified and identified according to **UNI EN 14891** in **CM02P class**, as a cementitious mortar that is resistant to chlorine, with crack-bridging ability at low temperatures (-20 °C). It also meets the requirements laid down by **UNI EN 1504-2** as a protective coating (C) according to the principles: **PI, MC and IR**.



MAIN FIELDS OF USE

Hydro Bielasto 200 was formulated specifically to ensure the best performance in waterproofing and protection systems of the most commonly used cementitious substrates in the construction industry.

IT is suitable for waterproofing before laying ceramic floor and wall tiles for:

- Bathrooms, showers, balconies, terraces, swimming pools, etc. before laying ceramic floor and wall tiles.
- Screeds, including old ones provided they are compact and dust free
- Vessels and tanks
- Hydraulic systems, such as irrigation or gutter channels, dams, etc.
- Prefabricated or cast-in-place concrete
- Autoclaved aerated concrete

To apply on different substrates, please contact our technical department.

CHARACTERISTICS

• Specifically for waterproofing under tiles. **Hydro Bielasto 200** is certified and identified according to **UNI EN 14891**, as a waterproof cementitious grout for liquid application under ceramic tiles. It is resistant to chlorine and has crack bridging ability at low temperatures (-20 °C), so classified as **CM02P**.

• Specifically for the protection of concrete. Thanks to the special formulation, **Hydro Bielasto 200** prevents the penetration of CO₂ from the atmosphere, thus protecting the concrete underneath from the negative effects of carbonation. It also meets the requirements laid down by **UNI EN 1504-2** coating (C) according to the principles: **PI, MC and IR**.

• Good workability. The use of special additives and inert fillers with a controlled particle size makes **Hydro Bielasto 200** extremely smooth, simple to work and apply, both with a float and airless sprayer, effectively meeting all the application requirements of a construction site.

• High binding power. **Hydro Bielasto 200** is a polymer-modified cement mortar. The binding values obtained after exposure to extreme conditions are proof of its long-lasting reliability.

• High flexibility.



APPLICATION METHOD

Preparation of the substrate

Mechanically remove any flaking or easily detached parts. Thoroughly clean the application area so that it is free of dust and residue from surface treatments, such as detergents, oily substances, mineral or organic oil, wax, traces of gypsum or salt. Highly porous, absorbent or flaky surfaces must be treated with a special **Nano Primer** first.

Preparing the mixture

Slowly **add component A** (powder) to **component B** (liquid), mechanically mixing with a low speed drill mixer to avoid incorporating air until a smooth and consistent mix is obtained without any lumps. The grout, obtained by mixing the two components, must be fluid and easy to apply. Do not divide the packages up into partial mixtures. If the product is stored in open, partially used sacks or drums, it may not meet the technical characteristics outlined in this document.

Application

Apply **Hydro Bielasto 200**, with a float or airless sprayer within 30 minutes of mixing. After the first coat has cured (approx. 24 hours depending on the weather conditions), apply a second coat of **Hydro Bielasto 200**. The thickness of each layer of **Hydro Bielasto 200** should not exceed 2.0 mm; the final thickness should be between 3 and 4 mm. In extreme weather conditions (strong wind, full sun, etc.), it is advisable to take precautions to prevent the product from drying too quickly. Inserting mesh when protecting concrete and waterproofing armoured foundation walls is recommended, but not strictly necessary. For highly uneven surfaces with micro cracks, areas subject to wear, substrates subject to settling or movement and for applications to interface different materials, we strongly recommend adding a layer of **licatatherm 160** fibreglass mesh between the first and second layer, overlapping it by at least 10 cm, and then, applying a third layer of the product. Use a suitable adhesive, such as **Flex Plus** or **Super S1** to lay ceramic floor or wall tiles.

Make sure that the ambient temperature, that of the substrate and product during application, is between +5 °C and +35 °C.

PRODUCT INFORMATION

	Component A	Component B
Appearance and colour	Grey powder	White liquid
Density (g/L)		1100
Bulk density (g/cL)	1300	
Solid residue (%)	100	25
Particle size	< 0.5 mm	
Storage	9 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C	9 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C
Packaging	23 kg bag	6 kg canister

PRODUCT INFORMATION

Appearance of the mixture	Grey paste with plastic consistency
Consumption	1.6 kg/m ² every 1 mm of thickness
Preparation of the product	1 pack comp.A + 1 pack comp.B
Workability time at 20°C	about 30 minutes
Application thickness per coat	≤ 2 mm
Application temperature	From +5 ° to +35 °C
Density of the mixture	1600 -1750 kg/dm ³
pH of mixture	approx. 10

PERFORMANCE required according to UNI EN 1504-2

Characteristic	Performance
Permeability to Co ₂ /equivalent air layer	>300
Water-vapour permeability	Class V2
Capillary water absorption and liquid water permeability	<0.1 kg m ² h ^{-1/2}
Freeze-thaw cycles with de-icing salt immersion	> 1.5 MPa
Thermal cycles 70 °C (thermal shock)	> 2 MPa
Direct tensile adhesion strength	> 1.5 MPa
Crack bridging	Class A3
Fire classification of construction and building products	F
Hazardous substances	None (see MSDS)

PERFORMANCES requested according to UNI EN 14891

Characteristic	Performance
Initial tensile adhesion strength	≥0.86 N/mm ²
Tensile adhesion strength after water immersion	≥0.61 N/mm ²
Tensile adhesion strength after immersion in a water and calcium solution	≥0.66 N/mm ²
Tensile adhesion strength after heat action	≥0.97 N/mm ²
Tensile adhesion strength after freeze/thaw cycles	≥0.7 N/mm ²
Tensile adhesion strength after immersion in chlorinated water	≥0.56 N/mm ²
Water penetration	<0.1 kg/m ² h ^{1/2}
Crack bridging in standard conditions	>0.75 mm
Crack bridging at -20°C	>0.75 mm

WARNINGS

- Product for professional use.
- Do not add water or more powder to the product once mixed.
- Alkaline material: protect eyes and skin during application.
- After use, wash tools with water while the mixture is still fresh.
- The ambient temperature and humidity rate affect the workability, setting and drying times.
- Monitor the product's curing period for at least 24 hours after applying; protect the fresh mortar from rapid drying, direct sunlight, strong wind and heavy rain.

SAFETY

Please consult the safety data sheet for information about product disposal, storage and usage.

NOTES

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

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