



HERATECH BLOCK

Adhesive cementitious mortar for laying and smoothing cellular concrete blocks.



TECHNICAL FEATURES

HERATECH BLOCK is a white powder adhesive mortar, composed of high-strength Portland cement, selected aggregates and specific additives, mixed together according to the quality standards of the **HERAKEM** laboratory, to improve workability and adhesion. **HERATECH BLOCK**, mixed with water, gives rise to a thixotropic mixture, characterized by excellent spreadability and water retention.

FIELD OF APPLICATION

- Bedding of cellular concrete blocks.
- Leveling of cellular concrete walls both inside and outside.

PREPARATION OF THE SUBSTRATE

The masonry elements must be solid, not subject to movement, free of friable parts, dust, oils, greases or other substances that limit the adhesion of the substrate. To ensure the durability of the plasters and finishes on the walls, it is essential to carefully prepare the surfaces before proceeding with the installation. Make sure to fill any discontinuities in the substrate due to chipping of the blocks, plant traces or other. Regularize the surfaces by removing any protruding glue residues. Remove dust by mechanical brushing or light washing with water, taking care not to apply the product with walls saturated with water. A substrate that is too humid would slow down the hardening of the product, it is advisable to moisten only if the blocks are particularly absorbent or in climates with temperatures that are too high. A slight wetting is recommended for shaving applications with low thicknesses of less than 3 mm.

MIX PREPARATION

Preferably mix with a mechanical mixer at low speed, 5.5–6.5 liters of clean water for each 25 kg bag of **HERATECH BLOCK** until a homogeneous and lump-free mixture is obtained. To best develop its application characteristics, it is advisable to let the mixture rest for about 5 minutes and to remix it briefly before use.

APPLICATION

Adhesive:

HERATECH BLOCK is applied on the blocks already positioned with a special notched trowel that automatically adjusts the thickness sufficient for a correct bedding operation. Immediately place the new block and record its position with a rubber mallet. Scrape off any excess mortar. To obtain a solid, bonded and tested masonry, with maximum stability performance, the application of **HERATECH BLOCK** must also be performed on the vertical surfaces of the blocks.

Smoothing:

HERATECH BLOCK must be applied, after preparing the surfaces, with a metal trowel and at least 24 hours after laying the cellular concrete blocks. Spread the mixture on the wall in a uniform thickness and incorporate the certified glass fiber mesh with a weight of ≥ 150 gr / m² and a mesh size of 4 * 5 mm. The mesh must be pressed onto the fresh layer of the mix with a smooth trowel and overlapped by at least 10 cm at the joints. Spread the second layer with a thickness of 2 – 3 mm, for a total thickness of 6 mm, sufficient to drown the reinforcement mesh, after at least 24 hours. Finish with highly breathable products.

ITEM OF SPECIFICATIONS

The cellular concrete blocks must be glued and smoothed with a high-strength Portland cement-based adhesive / smoothing compound for interiors and exteriors, selected aggregates and special additives that improve their mechanical characteristics, such as **HERATECH BLOCK** by **HERAKEM**, compliant with **UNI standards EN 998**– classified **GP-CSIV-W1**.



WARNINGS

- Operating temperature from + 5 ° C to + 30 ° C.
- During the summer, protect the shaving from rapid drying.
- Do not apply on substrates that are frozen, thawing or with the risk of frost in the 24 hours following installation.
- If the substrate is very absorbent, moisten it before applying the smoothing compound. In case of non-homogeneous or irregular substrate
- Insert an alkali resistant fiberglass mesh between the first and second coat.
- Apply decorative products only after the finish has completely dried and cured (wait from one to three weeks depending on the environmental conditions).
- The product is not suitable for low-consistency expanded cellular concrete blocks, for example with a density lower than 300 kg / m³.
- Do not apply decorative products containing solvents to the finish.
- The product is ready to use and therefore must be mixed only with drinking water. The addition of foreign materials can compromise the technical application characteristics
- Do not mix with gypsum, cement or sand or other products used in construction
- If used on gypsum substrates, apply a coat of **HERALAX AC**

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)

Maximum grain size	< 1,0 mm	Storage	12 months in original dry packaging
Mixing water	approx. 23%	Minimum thickness for assembling block	4 mm
Density of the hardened product	1420 kg/m ³	Water absorption	W1
Coverage per mm of thickness in smoothing	1,3 kg/m ²	Adherence to the concrete substrate	≥ 1
Compressive strength (Class M5)	6,7 N/mm ²	Thermal conductivity	0,44/0,50 W/mK (tabulated value)
Flexural strength	3,0 N/mm ²	Reaction to fire	Class A 1
Minimum thickness for shaving	3 mm	Customs heading	38245090

Block thickness	Consumption per cm of thickness	Packaging	25 kg bag
5 cm	approx. 1,4 kg/m ²		
7,5 cm	approx. 2 kg/m ²		
10 cm	approx. 2,8 kg/m ²		
15 cm	approx. 3,7 kg/m ²		

PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.

