HITi
Construction Revolution

THERMOBLOCK 1012

Technical Data Sheet



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DESCRIPTION

HITI THERMOBLOCK 1012 is a premium-grade, pre-bagged cementitious mortar designed for easy on-site application with the addition of water only. This advanced formulation combines cement with precisely graded silica sand and a range of performance-enhancing additives and polymers to optimize workability, adhesion, and water retention.

HITI THERMOBLOCK 1012 is engineered for the effective jointing and bonding of AAC (Autoclaved Aerated Concrete) and ALC (Aerated Lightweight Concrete) blocks, panels, thermostones and lintels, as well as all cement-based and clay-based partitions (bricks) and any other water-absorbent partition elements. Its exceptional adhesion and flexural strength contribute to a robust load-bearing capacity, significantly mitigating the potential for cracking in both interior and exterior applications.

Ideal for use in hot and tropical climates, **HITI THERMOBLOCK 1012** delivers consistent, high-quality performance even in challenging environmental conditions.

ADVANTAGES

- **Consistent Quality:** Pre-mixed to ensure uniform performance and high-quality results.
- **Ease of Use:** User-friendly formulation; simply mix with water and apply, enhancing workability.
- **Pre-packed Convenience:** Ready-to-use packaging supports Integrated Building Systems (IBS) construction, facilitating superior construction quality with reduced labor intensity.
- **Enhanced Adhesion:** Superior adhesion that accelerates the construction of ALC/AAC block walls.
- **No water curing needed** after laying.
- **Durability and Weather Resistance:** Designed for long-lasting performance with excellent resistance to weather conditions.

Application Process

Surface Preparation

Ensure that all surfaces of blocks and bricks are sound and thoroughly clean. Remove any dirt, dust, grease, cement laitance, loose particles, and other contaminants that could hinder proper adhesion. For very absorbent surfaces, pre-wet them with clean water before laying.

Mixing

- **Water Addition:** Measure and pour 6 liters of clean water per 25 kg bag into a mixing container.
- **Powder Integration:** Gradually introduce the **HITI THERMOBLOCK 1012** powder into the water.
- **Blending:** Employ a mechanical mixer to blend the materials for 3 – 5 minutes until a smooth, uniform paste is achieved, free from lumps.
- **Rest Period:** Allow the mixture to rest for 5 minutes, then stir again before use. If left unattended for more than 15 minutes, remix thoroughly.
- **Note:** Avoid incorporating additional water or other substances. Mix only full bags to ensure consistent results. In elevated temperatures, use chilled water to extend the working time of the mixture.

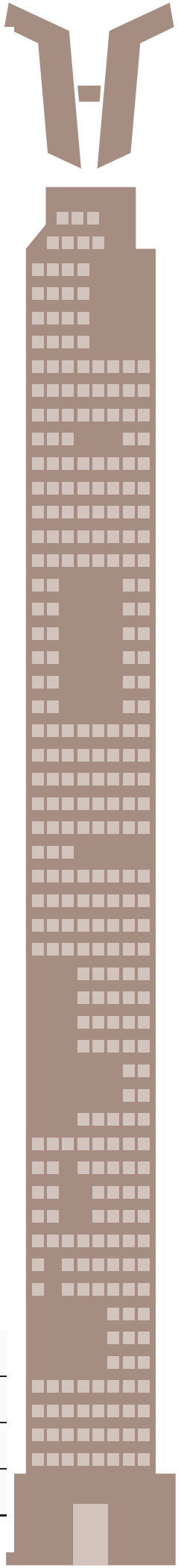
Application

- **Adhesive Application:** Apply the adhesive onto the block surfaces using a notched trowel. Standard bed thickness: 4 mm; allowed range 3 – 10 mm. Below 3 mm or above 10 mm is not acceptable.
- **Immediate Placement:** Work in small sections and position the blocks immediately to prevent the adhesive bed from forming a skin. Re-trowel the surface if skinning occurs.
- **Adjustment and Alignment:** Utilize a rubber mallet to gently tap and align the blocks, ensuring thorough contact and proper positioning within the adhesive bed.
- **Excess Adhesive Removal:** Remove any excess adhesive before it begins to set.
- **Setting Time:** Allow the adhesive bed to set undisturbed for a minimum of 24 hours before undertaking any additional work.
- **Protection:** Shield the freshly applied mortar from direct sunlight and strong winds. No water curing (spraying) is needed after laying.

Recommended wall system

HITI THERMOBLOCK 1012 → base coat (normal cement-sand plaster, optionally improved with HITI LATEX, **or** HITI NORSTER P30) → finish (HITI NORSTER P10 or HITI DECOPLAST DP 1999), with or without paint.

Property	Specification
Composition	OPC, well graded silica sand and polymers
Colour	Grey, White
Consistency	Pasty



Mix Density	1.9 g/cm³
Packaging	25 kg Bag
Mixing Ratio	24 % water (6 liters water per 25 kg bag)
Open Time	Approx. 35 minutes at 20 °C
Pot Life	2 hours / 20 °C
Application Ambient Air Temperature	+5 °C to +30 °C
Application Substrate Temperature	+5 °C to +30 °C
Bed thickness	Standard 4 mm · allowed 3 – 10 mm
Undisturbed after laying	At least 24 hours
Curing	No water curing needed
Shelf life	12 months
Storage	Dry place, +5 °C to +35 °C

Consumption (block face 40 × 20 cm, 4 mm adhesive)

Block thickness	**Blocks per bag**	**m² per bag**	**kg/m²**
10 cm	67.98	5.60	4.46
15 cm	45.32	3.74	6.69
20 cm	33.99	2.80	8.92
25 cm	27.19	2.24	11.16

Bags = wall area × 1.05 (5 % waste) ÷ m² per bag, rounded up. Example: 50 m² wall, 40 × 20 × 15 cm blocks, 4 mm → 15 bags.

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