



POLY FLEX 33 - THERMO BLOCK JOINTING MORTAR

DESCRIPTION :

POLYFLEX 33 is a cement-based, polymer-modified, adhesive mortar specially developed for bonding autoclaved aerated concrete (AAC), gas concrete blocks, pumice blocks (bims) and other lightweight masonry units. It provides high adhesion strength, dimensional stability and ease of application, enabling fast and precise masonry construction with minimal joint thickness. Designed for interior and exterior non-load bearing wall applications.

ADVANTAGE:

- High adhesion strength to porous substrates.
- Reduced mortar consumption.
- Easy mixing and smooth application.
- High workability.
- Crack-resistant structure.
- Faster wall construction compared to traditional mortar.

AREA OF USE :

- AAC (Autoclaved Aerated Concrete) blocks.
- Gas concrete blocks.
- Pumice (bims) blocks.
- Lightweight masonry units.
- Interior partition walls.
- Exterior non-structural walls.
- Residential and commercial buildings.

MIXTURE PREPARATION :

- POLYFLEX 33 on 6 - 7 L of clean water slowly and mix to obtain a homogeneous paste free from lumps.
- A low-speed mixer is recommended to mix. Do not add any substance which is not mentioned in the instructions for the application.
- The prepared mortar is left to rest for 5-10 minutes so that it matures after which it is mixed for 1-2 more minutes and then it becomes ready for application.

APPLICATION :

- The prepared mortar is applied to the surface using a notched trowel or a trowel with the suitable tooth size. The prepared mortar must be applied to the blocks within 5 minutes. If this duration has passed, the mortar must be removed from the surface and the coatings. The positioned bricks must be compacted from the top and sides to align with the rope and template.
- Consumption is 3 – 5 kg/m²

PACKING :

25 kg craft bags.

PRECAUTION IN APPLICATION:

- Surface condition: Ensure the substrate is structurally sound, clean, dry, and free from dust, grease, or loose particles.
- Ambient temperature: Do not apply at temperatures below 5°C or above 35°C. Extreme temperatures may affect adhesion and curing.
- Moisture: Avoid applying the adhesive on wet or damp surfaces unless the substrate is properly prepared.
- Mixing: Always add powder to water, not water to powder, to avoid lumps. Do not use more water than recommended.
- Open time: Apply tiles within the adhesive's open time; exceeding this may reduce adhesion.
- Tile type: Check tile manufacturer recommendations, especially for natural stone or moisture-sensitive tiles.
- Protective gear: Wear gloves and goggles during mixing and application to prevent skin and eye irritation.
- Avoid contamination: Do not mix with other adhesives, chemicals, or additives unless explicitly recommended.

SURFACE PREPARATION :

Blocks must be clean, free from dust and loose particles. Highly absorbent blocks should be slightly moistened before application (avoid surface saturation).

AFTERCARE / POST-APPLICATION INSTRUCTIONS :

- Protect fresh masonry from rain, frost and direct sunlight for at least 24 hours.
- Avoid structural loading before sufficient curing.
- Low temperatures extend curing time.

SECURITY INFORMATION :

Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information.

STORAGE AND SHELF LIFE :

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use



TECHNICAL PROPERTIES:

Appearance	Grey Powder	-
Pot Life	4 hours	-
Application	Between +5°C and	-
Temperature	+35°C	-
Mixing Ratio	6 - 7 L water / 25	-
	kg powder	-
Grouting	12 hours on wall;	-
	24 hours on floor	-
Consumption	Approx. 3 – 5	-
	kg/m ²	-
Open Time	≥ 15 minutes	EN 1346

PERFORMANCE :

Compressive Strength (28 days)	≥ 5 MPa	EN 1015-11
Adhesion Strength	≥ 0.5 N/mm ²	EN 1015-12
Flexural Strength	≥ 3 MPa	EN 1015-11
Dry Bulk Density	Approx. 1400–1600 kg/m ³	EN 1015-10
Water Absorption	Controlled	EN 1015-18
Reaction to Fire	A1	EN 13501-1

Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

