RAMCO HARD WORKER

BLOCK FIX AAC HW302

Polymer-modified thin-bed adhesive mortar for AAC block masonry

TECHNICAL DATA SHEET

Product Description

Hard Worker Block Fix AAC HW302 is a high-performance, cement-based thin-bed adhesive mortar for bonding autoclaved aerated concrete (AAC) blocks in masonry construction. Formulated from cement, polymers and well-graded aggregates, it develops high bond strength in 2–3 mm thin joints, minimising material consumption while enhancing structural stability, crack resistance and long-term durability.

Its smooth, workable consistency and controlled setting make block-laying fast and efficient, with markedly improved bond strength over traditional sand–cement mortars.

Features

- Composed of cement, polymers and well-graded fillers
- Designed for 2–3 mm thin-joint application
- Smooth consistency for easy workability
- Fast setting and shrinkage-resistant
- Improved bond strength over traditional mortars

Application Areas

Suitable for:

- AAC block masonry in residential and commercial walls
- Interior partitions (non-load bearing)
- Exterior wall construction
- Multi-storey buildings and precast AAC panel installation

Surface Preparation

Ensure all AAC blocks are dry, dust-free and free from loose material. Roughen dense or smooth concrete surfaces by hacking or grinding to improve mechanical grip. Do not use wet or saturated blocks.

Mixing

Add 10–11.2 litres of clean water to 40 kg of HW302 powder and mix for 3–5 minutes with a slow-speed blender until a smooth, lump-free mortar is obtained. Use only freshly prepared material; do not use partially set or hardened mix.

Application

Apply the mortar with a notched trowel to a uniform 3 mm bed thickness. Set the blocks in position within the 20-minute open time and press firmly into place to minimise vertical joint gaps. Clean tools and buckets immediately after use

Technical Properties

Property	Typical Result
Appearance	**Grey Powder**
Water-Powder Ratio	**24–30%**
Pot Life	**60 minutes**
Open Time	**20 minutes**

Performance Properties

Property	Typical Result
Split Tensile Strength, 28 days (ASTM C 1660)	**0.4 – 0.5 MPa**
Compressive Strength, 28 days (ASTM C 109)	**8 – 9 MPa**

All values tested under standard laboratory conditions.

Coverage

Block Size	Coverage/ Wall Area	Material Required (@3mm)
100 mm Block	**100 sq. ft.**	**40–50 kg**
150 mm Block	**100 sq. ft.**	**60–70 kg**
200 mm Block	**100 sq. ft.**	**80–100 kg**

Coverage varies with the smoothness and evenness of the substrate, block size and bed thickness.

Packaging

Available in 40 kg bags.

Shelf Life

Shelf life of 6 months from the date of manufacture when stored in sealed, dry condition.

Precautions and Safety

Contains cementitious material. Use gloves, goggles and a filter mask. In case of eye contact, rinse immediately with clean water and seek medical advice if irritation persists.

Important Note

Do not apply on water-logged or dust-covered surfaces. Avoid re-tempering or mixing with additives not specified by the manufacturer.

Technical Support

All values provided are tested under controlled laboratory conditions; performance may vary depending on site conditions and workmanship. For site-specific recommendations, technical data, or detailed guidance, contact the Hard Worker Technical Services Team at:

Toll-free number 1800 202 5700

Email customercare@ramcocements.co.in

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