RAMCO HARD WORKER

BLOCK FIX HW301

Polymer-modified masonry mortar for laying bricks, concrete and laterite blocks

TECHNICAL DATA SHEET

Product Description

Hard Worker Block Fix – HW301 is a high-performance, polymer modified dry mix mortar made with cement, graded sand, and performance enhancing additives. Designed for all types of brick and block laying applications, except AAC blocks. It ensures high compressive strength, excellent workability, and consistent bonding. Ready to use, mixed with clean water, it speeds up construction with a durable, self-curing finish.

Features

- Factory-blended formulation ensures uniform quality
- Self-curing – saves water and simplifies site practices
- Excellent workability for faster masonry works
- Compatible with red bricks, fly ash bricks, solid and laterite blocks
- No on-site batching needed – just add water and apply

Application Areas

Recommended for:

- Laying red bricks, fly ash bricks, concrete blocks, solid and laterite blocks
- Both residential and commercial masonry walls
- Standard bed thickness of 10–12 mm

Surface Preparation

Ensure surfaces are clean, free of dust, oil, grease, or loose particles.

Pre-wet bricks before use to reduce water absorption from mortar.

Mixing

Use 16–18% water for mixing.
Pour powder on a clean platform and turn over at least 3 times for uniformity.
Add water slowly and mix until a consistent, workable paste is formed.

Application

Apply mortar evenly using a trowel. Maintain 10–12 mm bed thickness. Align using string lines and check plumb regularly. Ensure vertical joints are fully filled. Use within 60 minutes of mixing. Clean excess material and finish joints neatly.

Curing

Self-curing – no external water curing required. Allow to set for 24 hours. Plastering can be done after 24 hours.

Technical Properties

Parameter	Value
Water Demand	**16% – 18%**
Compressive Strength @ 28 days	**6 – 7 MPa**
Split Tensile Strength @ 28 days	
Fly Ash Block	**0.2 – 0.25 MPa**

Parameter	Value
Solid Block	**0.3 – 0.35 MPa**
Red Brick	**0.25 – 0.3 MPa**
Laterite Block	**0.3 – 0.35 MPa**

All values tested under standard laboratory conditions.

Coverage

Substrate	Coverage in SQFT / 40 kg Thickness 10 mm
Red Brick	**15 – 16**
Fly Ash Brick	**15 – 16**
Solid Brick - 4 inch	**41 – 42**
Solid Brick - 6 inch	**27 – 28**
Solid Brick - 8 inch	**20 – 21**
Laterite blocks - 6 inch	**34 – 35**

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

Packaging & Shelf Life

Available in 40 Kg bags.
Shelf life: 6 months from date of manufacture when stored in dry conditions

Precautions and Safety

Non-hazardous, but protective gloves, eyewear, and masks recommended. Avoid contact with eyes; rinse with clean water if needed

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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