

STRONG BLOCK ACCELERATOR HW991

Accelerator Liquid Admixture For Manufacturing Blocks

TECHNICAL DATA SHEET

Product Description

HW991 Strong Block Accelerator is a high-performance liquid accelerating admixture developed for semi-dry concrete used in blocks such as paver blocks, hollow & solid masonry concrete units, fly ash bricks and PCC precast units. It improves the workability of the mix and delivers higher early strength for faster demoulding and reduced edge breakage.

HW991 Strong Block Accelerator is the value tier of the Strong Block range, focused on acceleration and early-strength development for improved plant productivity. It is designed for modern, high speed block manufacturing systems where faster demoulding, reduced breakage and consistent strength are essential for improving plant productivity and reducing rejection.

Features

- High early compressive strength (12 & 24 hr) - no retardation effect as observed in competitor admixtures
- Faster demoulding - shorter cycles and higher output
- No edge breakage at 12-hour demoulding
- No surface wetness - units are dry at demoulding time
- Focused on acceleration - delivers early strength and faster cycles (does not provide integrated self curing)
- Optimized durability
- Good workability - cohesive mix
- Compatible with all types of cement

Recommended Uses

Suitable for:

- Paver Blocks (Wearing & Backing Layers)
- Hollow and Solid Concrete Masonry Blocks
- Fly Ash Bricks
- Interlock Concrete Blocks
- PCC Precast units (without reinforcement)

Dosage

Typical Guidelines:

Paver Blocks - Standard (performance on par with Strong Block Plus)

- Wearing Layer: 0.20% (100 ml per 50 kg)
- Backing Layer: 0.60% (300 ml per 50 kg)

Paver Blocks - Higher Early Strength

- Wearing Layer: 0.20% (100 ml per 50 kg)
- Backing Layer: 0.80% (400 ml per 50 kg)

Hollow & Solid Concrete Masonry Blocks

- 0.60% (300 ml per 50 kg)

Fly Ash Bricks

- 0.40% (200 ml per 50 kg)

Final dosage to be established through plant trials.

Physical Parameters

Property	Typical Result
Appearance	Light Brown Colour
Specific Gravity	1.05-1.20
pH	9-10.5

Property	Typical Result
Solid Content at 107°C at Moisture Balance, (%)	9-11
Ash Content at 800°C (%)	9-11
Compatibility With	All types of OPC, PPC, PSC, Fly Ash and GGBS

Mixing Instructions

Before using HW991 Strong Block Accelerator, ensure proper stirring. Begin by mixing cement, sand and aggregates in a drum mixer. HW991 Strong Block Accelerator should be pre-diluted with approximately 5-10% of the total mixing water prior to addition into the concrete mix. Add the diluted admixture into the mixer along with the remaining gauging water to ensure uniform dispersion throughout the mix.

Adequate mixing must be maintained to achieve consistent distribution and optimal performance. The product should not be added directly to the dry cement-aggregate blend.

Curing

Adopt standard water curing practices appropriate to the block type. HW991 Strong Block Accelerator is an accelerating admixture and does not provide integrated self-curing.

Package

Available in 50 kg and 230 kg packs.

Shelf Life

12 months from date of manufacture when stored in original unopened packaging.

Storage

Store in original, unopened containers in a cool and dry place, protected from direct sunlight and frost. Keep containers tightly closed when not in use. Avoid contamination during handling. Stir well before use if stored for extended periods.

Precautions

Do not add directly to dry mix. Always conduct plant trials to determine optimum dosage. Over dosage may influence setting characteristics. Follow good concrete production practices for best results.

Health and Safety

Avoid contact with skin and eyes. Use appropriate personal protective equipment during handling. In case of contact, rinse immediately with clean water and if any irritation exists seek medical advice. Refer to the latest Material Safety Data Sheet for detailed safety information.

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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