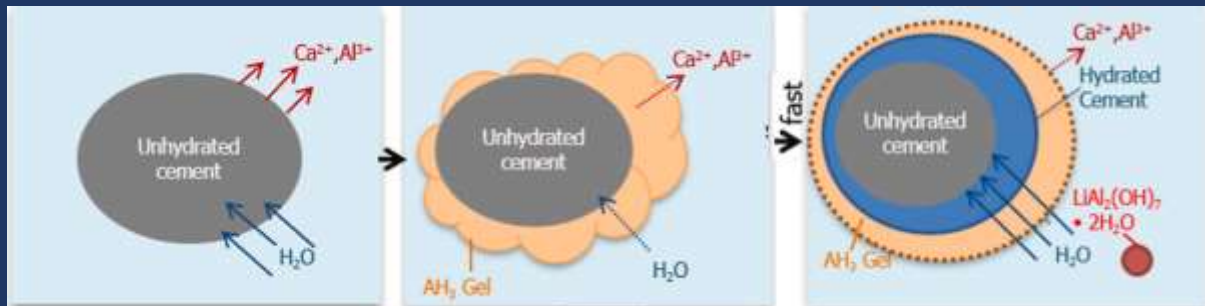


CONCRETE ADMIXTURE COMPOUND

ACCELERATOR

Microblock 200 is based on is based on PCE concrete accelerator and comes in a light-yellow liquid form. Its addition to cementitious mixtures disperses agglomerated cement particles, speeding up hydration and improving the performance of the water content. This facilitates water reduction to be achieved while working continuously, thereby enhancing strength.



Microblock 200 accelerators increase the solubility of calcium ions in the mix, promoting faster hydration of cement particles. PCEs are made up of a polymer backbone with carboxylate groups that help reduce the viscosity of the concrete mix. PCEs work by creating a steric effect. The long, flexible polymer chains attach to the surface of cement particles, preventing them from clumping together. This dispersion leads to improved workability and reduces water demand. This means the reactions can occur more readily, leading to quicker setting times. This accelerates the formation of calcium silicate hydrates, the compounds responsible for strength.

Where to use:

- Cold Weather Construction
- Precast Concrete Production
- Rapid Repair Work
- Shotcrete Applications
- Winter Sports Facilities
- High-Performance Concrete
- Emergency Repairs like after a natural disaster
- Thin Overlays and Toppings

Features of Microblock 200 Compounds:

- **Rapid Setting:** Microblock 200 significantly reduce the time it takes for concrete to set, allowing for quicker formwork removal and early finishing work.
- **Early Strength Development:** It enhances the rate of strength gain, enabling concrete to reach required strength levels faster, which is especially useful for projects with tight schedules.
- **Improved Workability:** Microblock 200 maintain or even enhance the workability of the concrete mix, making it easier to place and finish.
- **Versatility:** It can be used in various applications, including cold weather concreting, precast concrete production, and rapid repair projects.

- **Compatibility:** Mycrobloc 200 are designed to be compatible with various cement types and other chemical admixtures, allowing for flexibility in mix design.
- **Temperature Adaptability:** Mycrobloc 200 often perform better in low temperatures, making them ideal for winter construction projects.
- Environmental Considerations:
- **Enhanced Durability:** Mycrobloc 200 also contribute to the long-term durability of concrete by promoting optimal hydration.

Method of Application

Mycrobloc 100 dosage ratio based on mix design and site specification needs, recommended dosage as a guideline 0.6 to 2% of the cement's weight in volume.

Precautions & Limitations

- Do not add Mycrobloc 200 directly to dry cement & aggregate mix.
- Maintain water-cement ratio as low as possible.
- Do not increase the dosage of Mycrobloc 200 than the recommendation.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Free flowing liquid
Colour		Clear brown
Sp.gr @ 25 °C		1.35 to 1.37
Non-volatile contents		13.5 – 14.5 %
pH value		7 to 8
Setting time in min		Passes
Chloride content		NIL
Water permeability		Passes
Compressive strength N/mm ²		As per standard

Shelf Life

- Best before 2 years from the date manufacture when in sealed pack and stored under proper condition.
- Store in a cool & dry place.

Health & Safety

- Use rubber hand gloves & safety goggles, while using Mycrobloc 200
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children

Package size: 500 ml, 1 L, 5 L, 10 L, 20 L, 50 L and 220 L

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