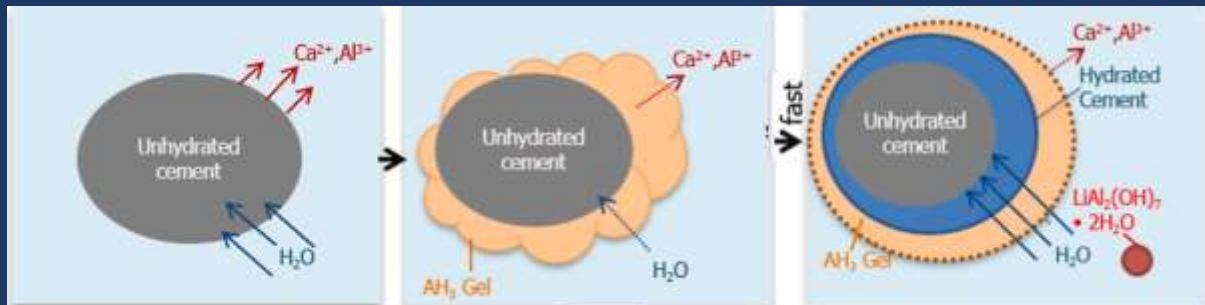


## CONCRETE ADMIXTURE COMPOUND

### ACCELERATOR

**M**icroblock FN is an accelerating admixture which is made without chloride and is based on a blend of nitrite and format salts. It comes as a straw-coloured solution that dissolves in water right away. By quickening the early phases of cement hydration, Microblock FN causes a quicker stiffening and enables strength increase to start earlier. This impact is most prominent within the first 24 hours following mixing and is especially visible at low temperatures.



Microblock FN accelerators increase the solubility of calcium ions in the mix, promoting faster hydration of cement particles. FNs are made up of a polymer backbone with carboxylate groups that help reduce the viscosity of the concrete mix. FNs 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.

#### 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 FN Compounds:

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

### Method of Application

Mycrobloc FN dosage ratio depends on mix design according to the requirement of site specification. Recommended doses as a guideline 0.6 to 1.5% volume by weight of cement depends on mix design.

### Precautions & Limitations

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

### Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Free flowing liquid
Colour		Straw coloured free flowing thin liquid
Sp.gr @ 25 °C		1.25 to 1.30 @20°C
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 <sup>2</sup>	<b>IS 9103:1999</b>	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 FN
- 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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