

Description: FORMALDEHYDE is a ready-to-use formaldehyde-based preservative designed for incorporation into liquid concrete admixtures. It effectively prevents microbial growth (bacteria, yeast, molds) during storage and transport, ensuring long-term stability, consistent viscosity, and reliable performance of water-reducing, set-retarding, and PCE-based admixtures. This product is intended for admixture manufacturing only, not for direct addition into concrete.

Technical Properties:

Chemical Content	Formaldehyde
Appearance	Liquid
Color	Clear to pale yellow
Active Content	37 ± 1 %
pH	2 -4
Density (20 °C)	1.08 – 1.10 g/cm ³
Water Solubility	Completely miscible with water
Freezing	-5 °C

Advantage:

- Prevents microbial contamination in liquid concrete admixtures.
- Maintains viscosity, fluidity, and water-reducing performance.
- Extends shelf life of admixture formulations.
- Ensures consistent performance during transport, storage, and hot weather conditions.
- Compatible with superplasticizers, set retarders, slump retention agents, and defoamers.
- Broad-spectrum microbial protection (bacteria, yeast, mold)
- Preserves stability and rheological properties of admixtures
- Reduces viscosity loss and phase separation during storage
- Easy to handle and dose in manufacturing systems
- Enhances safety and reliability of formulated concrete admixtures

Area of Use:

- Water-reducing admixtures.
- Set-retarding admixtures.
- Slump retention formulations.
- Precast concrete admixtures.
- Admixtures containing sugars or other organic additives.
- Admixtures with long-term storage or transport requirements.

Method of Application:

Add FORMALDEHYDE directly into admixture formulation under continuous mechanical stirring.

- Typical dosage: 0.05 – 0.2 % by weight of the final admixture
- Laboratory and field trials are recommended before large-scale production.
- Avoid direct addition to concrete.

Precautions in Application:

- Avoid contamination with foreign materials.
- Protect from freezing; if frozen, thaw at room temperature and mix thoroughly.
- Avoid prolonged exposure to high temperatures or sunlight.
- Use corrosion-resistant tanks and transfer lines.
- Ensure proper mixing to prevent phase separation.
- Improper formulation or incorrect dosage may affect admixture performance.
- Laboratory and field trials are mandatory prior to large-scale production.
- Dilution with deionized or clean industrial water is recommended when necessary.
- Follow standard occupational safety practices: gloves, goggles, protective clothing.

Compatibility:

FORMALDEHYDE is compatible with:

- Superplasticizers
- Set retarders
- Slump retention agents
- Defoamers and viscosity modifying agents

Simultaneous use with strong oxidizers, high-pH accelerators, or antifreeze agents is not recommended without laboratory validation.

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Cleaning:

- Avoid using strong oxidizing agents or acids for cleaning as they may react with the product and damage equipment.
- All cleaning effluents should be disposed of according to local environmental regulations, considering the product's formaldehyde content.
- Regular cleaning is recommended to prevent microbial growth, buildup, and cross-contamination with other admixture components.
- In case of extended storage in tanks, flush equipment before long idle periods to maintain hygiene and performance.



Packing: • 25 kg plastic drum • 200 kg drum • 1000 kg container Bulk

Storage and Shelf Life:

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

Security Information: Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information.