

Technical Data Sheet

HR ADMIX 5000

Integral Waterproofing Admixture



Product Description

HR Admix 5000 is a high-performance integral waterproofing admixture designed to enhance the durability and water resistance of concrete. When added to fresh concrete, it modifies the pore structure, reduces permeability, and provides permanent internal waterproofing without affecting workability or strength.

Applications

- Basement, foundation, and retaining wall concretes
- Water tanks, reservoirs, and swimming pools
- Roof slabs, terraces, and podium decks
- Bridges, tunnels, and subways
- Sewage and marine concrete structures

Key Features & Benefits

- Provides integral waterproofing throughout the concrete
- Reduces permeability and protects against water ingress
- Improves durability and resistance to chemical attack
- Compatible with all cement types and conventional admixtures
- Non-toxic and safe for potable water structures
- Does not affect concrete setting time or strength



Technical Properties

| Property | Typical Value | Test Method |
|-----------------------|---|-------------|
| Appearance | Brown liquid | |
| Specific Gravity | 1.05 – 1.15 | |
| pH | 7 – 9 | |
| Chloride Content | Nil / <0.1% | |
| Compatibility | All cement types and standard admixtures | |
| Effect on Workability | Improves or maintains slump | |
| Dosage | 0.5 – 1.5% by weight of cement (depends on exposure conditions) | |
| Curing | Standard water curing for 7–14 days | |



Method of Application

1. Add HR Admix 5000 to the mixing water before adding to cement and aggregates.
2. Mix thoroughly to ensure uniform dispersion throughout the concrete.
3. Pour, compact, and cure the concrete as per standard practice.
4. Do not add directly to dry cement.

Surface Preparation

- Not applicable as this is an integral admixture added during concrete batching.
- Ensure concrete components are properly proportioned for optimum performance.

Storage & Shelf Life

- Store in a cool, dry place away from direct sunlight and frost
- Keep container tightly sealed
- Shelf Life: 12 months in unopened original packaging

Health & Safety

- Non-toxic and safe to handle
- Avoid prolonged skin contact
- Use gloves and goggles if needed
- Wash hands with water after use
- Refer to MSDS for detailed handling instructions

Limitations

- Do not exceed recommended dosage
- Ensure proper curing for best results
- Not a substitute for surface waterproofing in areas of high hydrostatic pressure

Disclaimer

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