

HYDROCAP ADMIX[®] HA-1

High Performance Admixture For Integral Crystalline Waterproofing

TECHNICAL DATA SHEET

OVERVIEW:

HydroCap Admix HA-1 is composed of Portland cement and proprietary chemicals.

HydroCap Admix HA-1, when added integrally to the concrete or masonry, the active ingredients of HydroCap Admix HA-1 react chemically with free lime in the concrete or masonry in the presence of moisture to produce crystalline growth within capillaries and voids of the concrete or masonry. The crystalline growth thus produces dense, waterproof concrete or masonry. The process of crystalline growth is continuous as long as moisture is present in the concrete or masonry.

HydroCap Admix HA-1 treated concrete or masonry is protected against environmental attack and subsequent deterioration.

INTENDED USE:

Foundations
Swimming pools
Basements
Sewage treatment facilities
Retaining walls
Water treatment facilities
Concrete floors/slabs
Elevator pits
Water retaining structures
Fountains
Secondary containment structures
Underground vaults
Reservoirs
Waterproof shotcrete

Used To Integrally
Waterproof New Concrete

BENEFITS:

- In depth integral waterproofing ability
- Becomes integral part of concrete
- Impermeability lasts as long as concrete
- Resists extreme hydrostatic pressure
- Protects reinforcing steel from corrosion
- Protects against waterborne contaminants
- Stops ingress of water required for ASR
- Maintains high alkalinity for steel protection
- Compatible with water based adhesives & surface coatings
- Efficient application process
- Can be used in central mix plant operations
- Can be used in dry batch plant operations
- Suitable for precast applications
- Does not require re-application
- Does not require stringent workmanship

PRODUCT DATA:

pH: > 12.0
Appearance: White to off-white powder.
Shelf Life: 1 years from date of manufacture in original unopened container.
Storage Conditions: Store in sealed container. Protect from moisture.

RECOMMENDED DOSAGE:

1% - 2% by weight of cement
(May be used outside of recommended range with proper evaluation)

IMPERIAL MEASUREMENTS:

Note using less than 560 lbs of Portland cement per cubic yard may result in improper waterproofing. Do not use below

METRIC MEASUREMENTS:

Note using less than 330 kg of Portland cement per cubic meter may result in improper waterproofing. Do not use below

BATCHING & MIXING PROCEDURES

DRY BATCH OPERATION (READY-MIX FACILITY)

In accordance with the Recommended Dosage specified above, determine the required amount of HA-1. Add HA-1 to drum of ready-mix truck. Place the truck under batch plant and add 60% to 70% of required mixing water along with 300 to 500 pounds (136 to 227 kg.) of aggregate. Mix for about 3 minutes. Add balance of materials to ready-mix truck and mix according to applicable procedures.

CENTRAL MIX OPERATION (READY-MIX PLANT)

In accordance with the Recommended Dosage specified above, determine the required amount of HA-1. Make a thin slurry of HA-1 by mixing 5 to 7 pounds (2 to 3 kg.) of HA-1 powder in 1 gallon (4 liter) of water. Add the required amount of HA-1 slurry to the drum of the ready-mix truck. The aggregate, cement and water should be batched and mixed in the plant according to applicable procedures. Account should be taken of the slurry water already in the truck. Pour the concrete into the truck and mix for a minimum of 5 minutes.

PAN TYPE MIXER (PRE-CAST BATCH FACILITY)

In accordance with the Recommended Dosage specified above, determine the required amount of HA-1. Add HA-1 to the sand and coarse aggregates. Blend the mix thoroughly for 3 minutes. Add cement and water and mix thoroughly for 5 minutes before placing the concrete into forms.

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PRODUCTS & TECHNOLOGY FOR CONCRETE AND MASONRY WORLDWIDE SINCE 1904



For over 120 years, Anti-Hydro Products, LLC has been integrally waterproofing many concrete and masonry structures all over the globe. The success of our core product Anti-Hydro "AH-1", has been attested not only by the commercial recognition accorded by its use in many prestigious projects worldwide, but also by tests performed by many governmental agencies and accredited independent laboratories.

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