

ANTI-HYDRO[®]AH-1

Increased Hydration • Compressive Strength • Flexural Strength • Tensile Strength • Waterproofing

TECHNICAL DATA SHEET

OVERVIEW:

Anti-Hydro AH-1 is a non-corrosive admix solution of organic and inorganic chemicals that reacts with Type-1/Type-2 Portland cement to produce more complete hydration.

Water requirements, bleed water, capillaries and shrinkage are reduced. The increased hydration provides internal curing and a much denser, harder, and tougher cement paste that binds the aggregates together.

Anti-Hydro AH-1 increases the early and ultimate strength of concrete. The reaction with Portland cement produces impermeable/Integrally waterproof concrete that is hard and non-dusting. Anti-Hydro AH-1 is suitable for use with potable water and is compatible with subsequent finishes.

INTENDED USE:

Pavements
Elevator pits
Structural concrete
Sewage & water treatment plants
Swimming pools
Seawall construction
Basements
Patching foundations
Chimneys
Underground utility construction
Cement pargeing
Slabs-on-grade
Tunnels
Foundations
Tanks
Tilt-ups
Countertops
Precast
Cold weather
Waterproof shotcrete

Anytime More Complete Hydration Of Portland Cement Is Desired

BENEFITS:

- Increases hydration from 65% to 95% or greater
- Integral waterproofing / Impermeable concrete
- Resists extreme hydrostatic pressure from positive and negative side
- Provides moisture resistance
- Provides superior chemical resistance
- Resistant to freeze-thaw cycles
- Reduces or eliminate efflorescence
- Non-Toxic, permanent & easy to use
- Increased compressive strength early & ultimate
- Accelerated set / Reduced shrinkage
- Increased flexural strength
- Increased tensile strength
- Increased bond shear strength
- Increased tensile shear strength
- Improved abrasion resistance
- Improved chemical resistance

PRODUCT DATA:

Specific Gravity:	1.17 - 1.23
pH:	5.5 - 7.0
Appearance:	Brownish-Orange liquid
Shelf Life:	3 years from date of manufacture in original sealed container.
Storage Conditions:	Store in sealed container. Protect from extreme temperatures.

RECOMMENDED DOSAGE:

2.5% by weight of Type-1/Type-2 Portland cement

IMPERIAL MEASUREMENTS:

For proper waterproofing mix design should contain no less than 526 lbs of Portland cement per yard.

ESTIMATOR'S GUIDE:

1.5 gallons of AH-1 per cubic yard of concrete.

METRIC MEASUREMENTS:

For proper waterproofing mix design should contain no less than 315 kgs of Portland cement per cubic meter.

ESTIMATOR'S GUIDE:

7.5 liters of AH-1 per cubic meter of concrete.

MIXING:

Anti-Hydro AH-1 is designed for use with Type 1/Type 2 Portland cement. It may be used as a single admixture or used in combination with other admixtures or additives. Performance of the mix design should be verified to confirm compliance with project specifications. Anti-Hydro AH-1 shall be added with mixing water or to the concrete while partially mixed and mixed for a minimum 1 minute per cubic yard. Addition of Anti-Hydro AH-1 is recommended to be at the job site or at the ready mix plant.

WARRANTY: Anti-Hydro Products, LLC. (Anti-Hydro) warrants its products to be free of manufacturing defects at the time of delivery to its customer and will, at its option, replace or refund the invoiced price of any materials proven to be defective. This limited warranty is in lieu of any other warranty or guarantee, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Anti-Hydro disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever beyond the invoiced price of the material to its customer.

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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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