



ANTI-HYDRO® AH-1

A non-corrosive admixture that integrally waterproofs concrete, increases workability, strength, hardness, & durability.



ADMIXTURE FOR:

**INCREASED HYDRATION
WATERPROOFING
COMPRESSIVE STRENGTH
FLEXURAL STRENGTH
TENSILE STRENGTH**

95% OR GREATER HYDRATION!

Anti-Hydro AH-1 is a non-corrosive 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. These combined reactions produce impermeable/waterproof concrete that is hard and non-dusting.

INTENDED USE

STRUCTURAL CONCRETE

SWIMMING POOLS

BASEMENTS

STUCCO

MASONRY

PATCHING FOUNDATIONS

ELEVATOR PITS

SEWAGE & WATER TREATMENT PLANTS

SEAWALL CONSTRUCTION

TUNNELS

UNDERGROUND UTILITY CONSTRUCTION

SLABS-ON-GRADE

FOUNDATIONS

TILE

TANKS

TIILT-UPS

COUNTER TOPS

PAVEMENTS

WATERPROOF SHOTCRETE

COLD WEATHER

ANYTIME MORE COMPLETE
HYDRATION OF CEMENT IS DESIRED.

FEATURES

- 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
- Complies with NSF STD 61 for potable water
- Accelerated set / reduced shrinkage
- Waterproof / impermeable concrete
- Increased flexural strength
- Increased tensile strength
- Increased bond shear strength
- Increased tensile shear strength
- Improved abrasion resistance
- Increased compressive strength early & ultimate

BENEFITS

HIGH STRENGTH

Dramatically increases strength - compressive, flexural & tensile

HARDENING & DENSIFYING

Over 30% harder and denser

WATER VAPOR CONTROL

Reduces all vapor transmission up to 85%

INCREASED ABRASION RESISTANCE

Resists scratches, gouges & wear due to increased hardness

COLD WEATHER PROTECTION

Keeps concrete & mortar from freezing, sets quickly

CORROSION RESISTANCE

No penetration of chemicals minimizes corrosion

ALL OF THESE ATTRIBUTES ADD UP TO DURABILITY!

HYDRATION COMPARISON STRENGTH TEST

Compressive strength psi @ 24 hours
Impact on 24 hours cement hydration & compressive strength.

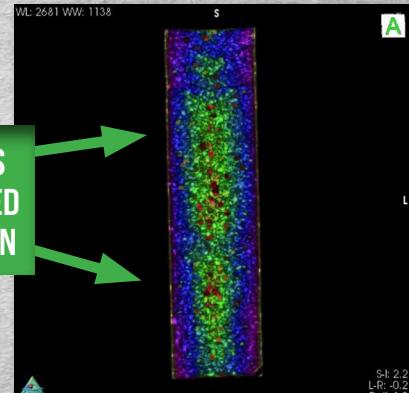
WITHOUT ANTI-HYDRO

4808psi
CEMENT & WATER



CT SCAN IMAGE
CONCRETE FORMULATION WITHOUT ANTI-HYDRO

CT SCAN SHOWS
65% UNHYDRATED
CEMENT IN GREEN



WITH ANTI-HYDRO

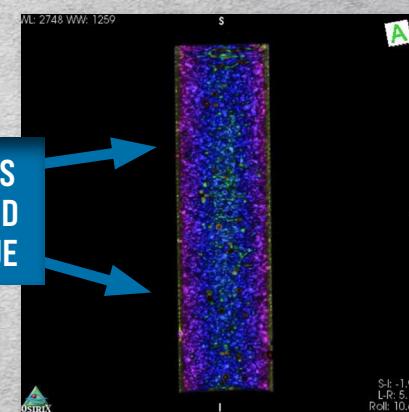
Compressive strength increased by 25% and
hydration increases 30% with Anti-Hydro AH1.

>6000psi
CEMENT & WATER + ANTI-HYDRO



CT SCAN IMAGE
CONCRETE FORMULATION WITH ANTI-HYDRO

CT SCAN SHOWS
95% HYDRATED
CEMENT IN BLUE





THE IMPORTANCE OF SUSTAINABILITY

Concrete is an essential part of our world. The use of concrete in construction affects the quality of human life in a positive manner. We also must recognize the importance of sustainability. It is estimated that approximately 4 billion metric tons of cement are used each year and that 5% - 9% of the world carbon emissions are generated by the production of cement.

THIS BRINGS ABOUT AN IMPORTANT CHALLENGE!

Both the use of concrete in construction and sustainability are required for the current and continued well-being of humankind.

ANTI-HYDRO PRODUCTS LLC ACCEPTS THIS CHALLENGE.

Our AH-1 product provides numerous improvements to concrete utilizing Portland cement.

Ultimately the sum of those benefits is durability and longer lasting structures result in major contributions to sustainability. Reduction of raw material consumption, i.e cement, water, energy equals reduction in carbon emissions.

**ANTI-HYDRO®
COMES IN
4 VERSIONS**

Anti-Hydro® AH-1 Accelerated Set

Anti-Hydro® R Retarded Set

Anti-Hydro® NC Accelerated Set

Anti-Hydro® NCR Retarded Set



GET IN TOUCH WITH US

Our vast global network spans over 40 countries, serving all customers large and small, no matter the complexity of your order, we can meet your needs and will exceed your expectations.

ANTI-HYDRO PRODUCTS, LLC®

PRODUCTS & TECHNOLOGY FOR CONCRETE AND MASONRY WORLDWIDE SINCE 1904

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