



ANTI-HYDRO®

Admixture for Integrally Waterproofing Shotcrete or Gunitite

PRODUCT SPECIFICATION 1-7

Rev. 05/24

DESCRIPTION:

ANTI-HYDRO® is extensively recommended for durability and waterproofing of gun applied cement mixes. Shotcrete or gunitite mixes containing ANTI-HYDRO® are impermeable, have greater strength and durability. It has been successfully used in waterproofing reservoirs, swimming pools, or any structure subjected to water conditions or severe exposures.

ANTI-HYDRO® is a non-corrosive solution of organic and inorganic chemicals that reacts with Portland cement to produce more complete hydration. The increased hydration provides internal curing and a much denser, harder and tougher cement paste that binds the aggregates together.

SPECIFICATIONS:

All shotcrete or gunitite areas, as indicated on plans and specifications, shall be waterproofed with ANTI-HYDRO®, as manufactured by Anti-Hydro Products, LLC.

MIX DESIGN:

The mix shall consist of Type-1/Type-2 Portland cement, clean well graded, fine and coarse aggregates, conforming to ASTM C 33, designed for maximum strength with a minimum of 3000psi compressive strength. Each cubic yard shall contain a minimum of 526 pounds (5.6 bags) of Type-1/Type-2 Portland cement and with a water/cement ratio (w/c) between 0.44 and 0.56 and not more than 35 gallons of total liquid.

ANTI-HYDRO® shall be added with the mixing water or to the shotcrete while partially mixed and mixed for a minimum 1 minute per cubic yard. Addition of ANTI-HYDRO® shall be at the jobsite.

• SHOTCRETE:

ANTI-HYDRO® shall be added with the mixing water or to the Shotcrete while partially mixed and mixed for a minimum 1 minute per cubic yard. Addition of ANTI-HYDRO® shall be at the jobsite.

• GUNITITE:

A solution of 1 part ANTI-HYDRO® to 15 parts water shall be used as a gauging liquid and added to mixing water. All parts are measured by volume. Mixing liquid is to be added to the dry mix at the mixing nozzle.

APPLICATION:

All surfaces to be treated shall be thoroughly cleaned to remove dirt, oil, foreign matter, or loose material. Surfaces shall be hosed off with water under pressure, or air blasted and washed for proper preparation.

The nozzle is held perpendicular to the prepared surface and shotcrete is applied at a point 3 to 4 feet from the surface. The nozzle is moved in a narrow range to produce a spreading effect over a small area. Refer to ACI 506 R "Guide to Shotcrete".

PRECAUTIONS:

• APPLICATION:

ANTI-HYDRO® Waterproof Shotcrete or Gunitite shall not be applied to surfaces containing frost or ice. Where standing or running water is encountered, the water must be stopped or controlled before application of Shotcrete. See ANTI-HYDRO® (Spec.1-13A) Hot Plugging.

All surfaces treated with ANTI-HYDRO® Waterproof Shotcrete or Gunitite shall be finished with overlapping joints so no areas are butted. Overlapping must be at least 6 inches. Leave the section to be overlapped at least 3/4 of an inch from the finished surface. Rebound materials shall not be reused in the Shotcrete mixes.

MAINTENANCE:

All due diligence must be exercised to provide a regular and frequent maintenance plan to clean and protect the finished surface from severe or prolonged assault from chemical attack, abrasive attack or similar abuse

SAFETY:

Use approved safety glasses, rubber gloves, coveralls and work boots. Protect animals, vegetation and food items. Refer to the Safety Data Sheet (SDS) for details.

STORAGE:

Store in a dry, cool place. Keep containers tightly closed. Refer to the SDS for details. **KEEP AWAY FROM CHILDREN.**

ESTIMATOR'S DATA GUIDE:

Shotcrete/Gunitite:

1 ½ gallons of ANTI-HYDRO® per cubic yard

1 quart of ANTI-HYDRO® per a bag (94 lb.) of Type-1/Type-2 Portland cement.

PACKAGING:

1-quart, 1-gallon, 5-gallon, 55-gallon or 275-gallon containers.



SERVICES:

Our technical staff is available to review product selection and detailing during the design stage.

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.

To the best of our knowledge, the information contained herein is accurate. However Anti-Hydro Products, LLC.. does not assume liability whatsoever for the accuracy or completeness of information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present known or unknown hazards, please refer to the Safety Data Sheet (SDS) for this product. This notification may not be detached from the specification. Any copying and redistribution of the specification shall also include copying and redistribution of this notice. Our salespersons or representatives, distributors and their personnel have no authority to change the recommendations contained herein.

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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