



# ANTI-HYDRO®

## Placing Masonry in Cold Weather Conditions

### PRODUCT SPECIFICATION

### 8-2

Rev. 07/24

#### DESCRIPTION:

ANTI-HYDRO® is used to safely place masonry in cold weather conditions. It increases hydration and often eliminates the need for externally applied heat.

ANTI-HYDRO® is a hydration promoting, non-corrosive solution of organic and inorganic chemicals that reacts with Portland cement to promote more complete hydration. The early heat of hydration often eliminates the need for externally applied heat. The increased hydration also provides internal curing and a much denser, harder cement paste.

#### RECOMMENDATIONS FOR COLD WEATHER MORTAR:

1. Mortar may be safely placed in cold weather. Early development of compressive strength in the mortar will prevent damage due to early freezing. ANTI-HYDRO® will attain higher strengths in less than 12 hours before freezing which prevents damage due to frost action.
2. The use of ANTI-HYDRO® economically provides increased workability and lower water requirements. ANTI-HYDRO® increases the rate of and the percentage of cement hydration. ANTI-HYDRO® enhances internal curing by increasing the amount of cement hydration, produces high early strength which prevents damage due to frost action. ANTI-HYDRO® will not affect the color of the mortar. ANTI-HYDRO® will not cause efflorescence.
3. The warmer the aggregates, water and masonry units, the more rapid will be the development of strength and the greater cold weather protection. Do not use frozen sand. The maximum temperatures of the mixing water should be 150°F.
4. On windy days, erect wind barriers to prevent rapid heat losses. Cover all masonry at the end of the workday to prevent water saturation from rain.
5. Prevent gases from heating devices from contacting fresh mortar. Carbonation results in soft, weak mortars.
6. The higher the Portland cement content of the mortar, the greater amount of heat produced. The more heat produced, the greater cold weather protection.

#### MASONRY MORTARS, STUCCO AND PLASTER:

Mortars shall conform to the requirements of Type "S" or Type "M" (ASTM C-270). Use Type 1/2 Portland cement with no more than 25% lime (1 part Portland cement plus 1/4-part lime to 3 parts clean, sharp sand conforming ASTM C-144).

Addition of ANTI-HYDRO® to the mixing water shall be done as shown in ESTIMATOR'S DATA, based on the lowest temperature in the 24 hours period following installation, including wind chill factor. All parts are measured by volume. Increase dosage of ANTI-HYDRO® if quicker set is desired.

#### ESTIMATOR'S DATA:

Protect cement mortars against freezing, for anticipated outside air temperatures, and wind chill conditions.

##### TEMPERATURE RANGE

From 32° to 25°F  
From 24° to 15°F  
14°F or Less:

##### REQUIRED ANTI-HYDRO® & WATER MIX

1 part ANTI-HYDRO® with 12 parts water  
1 part ANTI-HYDRO® with 10 parts water  
Mechanical heating is necessary

To protect masonry cement or lime mortars at temperatures as low as 25°F, use 1 part ANTI-HYDRO® with 10 parts water.

#### 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.**

#### 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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