GRANOLITHIC CONCRETE FLOOR TOPPING

PRODUCT SPECIFICATION 3-4

Rev. 04/25

DESCRIPTION:

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 denser harder cement paste that binds the aggregates together. Granolithic toppings containing **ANTI-HYDRO®** applied to floor slabs are hard non-dusting, abrasion resistant and more durable. **ANTI-HYDRO®** increases the early and ultimate strength thus allowing early access to concrete floors and slabs.

SPECIFICATIONS:

All heavy-duty concrete toppings, as indicated on plans or finish schedules, will be made hardened and non-dusting by the addition of **ANTI-HYDRO®**, as manufactured by **Anti-Hydro Products, LLC.**

MIX DESIGN:

The heavy-duty topping mix shall consist of approximately 1 part Type-1/Type-2 portland cement, 1 part fine aggregate, and 1½ parts coarse aggregate. All parts measured by volume.

Fine aggregates will contain no more than 10% passing No. 50 mesh sieve size. Coarse aggregates shall be crushed stone, gravel, or trap rock and shall be graded from ⅜" maximum to ⅛" minimum.

Each cubic yard of topping mix shall contain at least 846 pounds (9 bags) of Type-1/Type-2 portland cement and 2¼ gallons of **ANTI-HYDRO®** and have a water/cement ratio (w/c) of 0.35. Maximum slump shall be 4". Anti-Hydro is suitable for use with type 1L cement.

INSTALLATION:

- **BONDING TO A FRESH CONCRETE BASE:**

The heavy-duty topping shall be placed upon a fresh concrete base course before the base course reaches the final set. The surface of the base course shall not have water or laitance present.

- **BONDING TO A HARDENED CONCRETE BASE:**

A heavy-duty topping may be phase constructed where the base course is placed at one time and the heavy duty topping placed at a later date. This is accomplished by placing the base course and texturing the surface before the base course achieves its final set. Texturing is done by cutting ribs in the surface with a coarse wire broom. Later, when the heavy-duty topping is placed, the surface is cleaned, dampened, and treated with an **ANTI-HYDRO® Slush Coat.**

- **BONDING TO EXISTING CONCRETE SLABS:**

As a rehabilitative topping on existing concrete slabs, the surface must be prepared by scarifying, cleaning, and soaking the surface with water, followed by the **ANTI-HYDRO® Slush Coat** application and then the heavy duty topping. Topping must be placed on a wet slush coat.

- **PLACING AND FINISHING:**

The heavy-duty topping shall be straight edged or rolled level, followed immediately by bull floating for secondary leveling and compaction. After the initial bleed water has disappeared, the surface shall be floated. Floating operations shall be done in two directions perpendicular to each other.

After the heavy-duty topping has been allowed to stiffen (sustain foot pressure with no greater than ¼" indentation), the first troweling operation shall start. Upon completion of the first troweling, the heavy-duty topping shall be allowed to stiffen further and a second troweling started. For the second trowel application, the troweling blade shall be slightly tilted to produce a hard, smooth, finished surface that is free from marks or blemishes. For further burnishing, continue troweling operations.

- **TOPPING PROTECTION:**

After the topping is dry to the touch, protective paper or film shall be rolled out to protect the "green" topping. The protection shall remain in place for at least 3 days or until the finish will not be marred by other construction trades. If the slab is to be subjected to heavy traffic during the first 2 weeks, it should be protected by plywood sheets or planking.

- **CURING UNDER ADVERSE CONDITIONS:**

If concrete slabs are to be placed at temperatures over 80º F, in the direct rays of the sun, or exposed to drying winds, care should be taken to prevent water loss. Dampen sub-base, erect wind barriers, finish concrete promptly, use water curing, or curing compound. Continue curing for a minimum of 7 days.

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:

2¼ gallons of **ANTI-HYDRO®** per one cubic yard of concrete.
1 gallon **ANTI-HYDRO®** per 150 sq. ft. of **ANTI-HYDRO®** Slush Coat.

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.

ANTI-HYDRO PRODUCTS, LLC ®

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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