A-H® EMERY
AGGREGATE FOR SLIP RESISTANT SURFACES

PRODUCT SPECIFICATION 5-3

Rev. 05/25

DESCRIPTION:
A-H® EMERY, is a hard, mineral form of the "Corundum" family (alumina). **A-H® EMERY**,treated floor surfaces are durable, non-rusting, wear and slip resistant.

It is a specially graded form of "Corundum", rich in aluminum and ferric oxides. The polyhedral shape and hardness of the particles gives the slab a non-slip surface. Typical installations include stair treads, ramps, laundries, docks, balconies, warehouses, sidewalks, and aisles.

SPECIFICATIONS:
All sidewalks, stair treads, ramps, and other surfaces, as indicated on plans or finish schedules as non-slip, shall be treated with **A-H® EMERY**, as supplied by Anti-Hydro Products, LLC.

MIX DESIGN:
A-H® EMERY shall be thoroughly dry mixed with fresh Type 1/Type-2 Portland cement using dry and clean equipment. The proportions shall be 94 lb. (1 bag) of Type-1/Type-2 portland cement to 400 lb. of **A-H® EMERY**.

(For maximum brightness of color, durability, waterproofing and abrasion resistance, add 1½ gallon of **ANTI-HYDRO®** admixture to each yard of concrete in accordance with the specification.)

- **SHAKE-ON COVERAGE:**

Application of **A-H® EMERY** varies from 25 lbs. to 50 lbs. per 100 sq. ft. For applications requiring less than 35 lbs. of grits per 100 sq. ft., Portland cement and pre-mixing are not required.

INSTALLATION:

- **PLACING AND FINISHING:**

The concrete shall be properly placed and screeded and any free water shall be removed. Immediately thereafter, the pre-mixed A-H® EMERY and cement shall be broadcast evenly over the surface. The rate of application shall be 25 lbs. to 50 lbs. of **A-H® EMERY** per 100 sq. ft. of surface. The floor shall then be darbied or bull floated. Care shall be taken to embed **A-H® EMERY** firmly on the surface of the concrete floor. The slab shall then be allowed to set sufficiently so that the surface may be properly floated and/or troweled to the desired finish.

- **CURING:**

If maximum slip resistance is to be achieved by subsequent acid etching, use water or a chemical type curing compound. Membrane type curing compounds should not be used

- **ETCHING SURFACE**

For maximum exposure of the abrasive particles, concrete surfaces may be etched with a 10% solution of muriatic acid and subsequently flushed with clear water. Etching should not be done until the floor has cured properly. Normal precautions when working with acids should be observed.

PRECAUTIONS:

- **INSTALLATION:**

To prevent delamination of the surface, maintain a maximum of 3% entrained air.

- **SAFETY:**

Use approved safety goggles, work gloves, breathing mask, coveralls, work boots, and ventilation methods. KEEP AWAY FROM CHILDREN. Refer to the product SDS (Safety Data Sheet) for more detail.

- **STORAGE:**

Store in a dry, cool area. Keep bags tightly closed. KEEP AWAY FROM CHILDREN.

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.

TYPICAL PROPERTIES/PERFORMANCE DATA
A-H® EMERY AGGREGATE:

HARDNESS:	Mohs Scale	8 to 9		
	Knoops Scale	2,000		
	% Wear	12.9, Grading A, ASTM C-131		
	Penn. State Univ. H.A. No. 291	Hardest aggregate tested		
SLIP RESISTANCE:	Sigler Test	Non-Slip		
CONDUCTIVITY:	Resistivity-Log 10	4.2		
	Resistivity (ohm-cm)	1.9×10^{4}		
	Conductivity (ohm-cm)	5.2×10^{-5}		
SHAPE:	Cubical, Polyhedral			
COMPRESSIVE STRENGTH:	60,000 lb. /sq. in.			
CHEMICAL ANALYSIS:	Al_2O_3	58% min.	SiO_2	4%
	Fe_2O_3	24%	TiO_2	3%
	CaO	2%	L.O.I.	9%

ESTIMATOR'S DATA GUIDE:
A-H® EMERY 25 to 50 lbs. per 100 ft².

PACKAGING:
A-H® EMERY is available in 50 lb. bags.

SERVICES:
Our technical staff is available to review product selection and detailing during the design stage, provide proper field guidance during the installation 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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