

HYDROCAP POWDER® HP-1

Crystalline Slurry Coat For Surface Waterproofing

TECHNICAL DATA SHEET

OVERVIEW:

HydroCap Powder HP-1 is composed of Portland cement, fine silica sand and proprietary chemicals.

HydroCap Powder HP-1, can be applied as a slurry coat on existing/new concrete or masonry surfaces and as a shake on new concrete or masonry surfaces. The active ingredients of HydroCap Powder HP-1 penetrate and react chemically with free lime in the concrete or masonry in the presence of moisture to produce crystalline growth within capillaries and voids of the concrete or masonry.

The crystalline growth produces dense, waterproof concrete or masonry. The process of crystal growth is continuous as long as moisture is present in the concrete or masonry.

HydroCap Powder HP-1 treated concrete or masonry is protected against environmental attack and subsequent deterioration.

INTENDED USE:

Foundations
Swimming pools
Basements
Sewage treatment facilities
Retaining walls
Water treatment facilities
Concrete floors/slabs
Elevator pits
Water retaining structures
Fountains
Secondary containment structures
Underground vaults
Reservoirs

Used To Waterproof
New Concrete

BENEFITS:

- In depth waterproofing ability
- Becomes integral part of concrete
- Impermeability lasts as long as concrete
- Impermeability is not affected by surface wear
- Compatible with water based adhesives and surface coatings
- Resists extreme hydrostatic pressure
- Protects reinforcing steel from corrosion
- Protects against waterborne contaminants
- Stops ingress of water required for ASR
- Maintains high alkalinity for steel protection
- Efficient application process
- Can be applied to wet concrete
- Can be used for new or existing concrete
- Can be applied to positive or negative side
- Does not require re-application
- Does not require stringent workmanship

PRODUCT DATA:

pH: > 12.0
Appearance: White to off-white powder.
Shelf Life: 1 years from date of manufacture in original unopened container.
Storage Conditions: Store in sealed container. Protect from moisture.

MIX DESIGN:

HYDROCAP POWDER HP-1 SLURRY COAT:

Measure HydroCap Powder HP-1 and potable water in separate containers. Add 0.7 to 1.0 part of clean water to 2 parts of HydroCap Powder HP-1. Use a slow speed drill with mixing paddle and mix thoroughly to medium stiff slurry like consistency. All parts measure by volume. If mixed slurry coat begins to set, re-stirring restores the mixed slurry coat to proper consistency, Do Not add additional water to the mixture or retemper the mixture. Mix only enough HydroCap Powder HP-1 that can be used in 20 minutes under normal 70°F temperatures. Always add water to HydroCap Powder HP-1.

MORTAR MIX:

First, thoroughly mix 1 part HydroCap Powder HP-1 and 2-part mason sand to make a dry Mortar Mix. Then, measure 6 parts of dry Mortar Mix and 1-part clean water in separate containers. Slowly add measured water to a measured dry Mortar Mix while stirring, using a slow speed drill with mixing paddle, until a trowelable, homogeneous mortar consistency is achieved. All parts measure by volume. Mix only enough Mortar that can be used in 20 minutes under normal 70°F temperatures. Always add water to Mortar Mix.
Note: Proper surface preparation is critical. Do not use below 40F/4.4C

IMPERIAL MEASUREMENTS:

ESTIMATOR'S GUIDE:

AH-HydroCap Powder Slurry Mix 15 lbs. per 100 sq. ft. per coat.

METRIC MEASUREMENTS:

ESTIMATOR'S GUIDE:

AH-HydroCap Powder Dry Shake 73 kgs. per 100 sq meters per coat

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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 uses in many prestigious projects worldwide, but also by tests performed by many governmental agencies and accredited independent laboratories.

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