



ATLAS HYDROSEAL

Cement-Based Waterproof Coating for Concrete & Masonry

Description

Atlas Hydroseal is a cement-based coating material designed to waterproof concrete and masonry surfaces. This protective coating fills and seals the pores and voids in the surface to prevent the migration of moisture and withstand mild hydrostatic pressure. Hydroseal is a single component, non-shrink, breathable coating that is available in a concrete gray color.

Uses

- Waterproof concrete, block, brick, stone, stucco and other masonry surfaces.
- Interior and exterior applications, above & below grade.
- Ideal for foundations, basement and retaining walls, water reservoirs, bridges and tunnels.
- Positive and negative side applications.

Features

- Excellent waterproofing properties to prevent moisture damage.
- Out-performs paint-type coatings.
- Breathable coating allows moisture from the interior to escape without blistering or peeling the coating.
- Provides both positive and negative side protection.
- Produces a consistent and uniform appearance.
- Add fine sand in mix to obtain a desired texture finish.
- Conceals mortar joints and hides minor surface defects.
- Leaves a bondable surface for architectural coatings.
- Rapid-setting speeds job cycle.
- Excellent durability in freeze/thaw conditions.
- Resists chloride/salt penetration.

Technical Data & Specifications

Set Time (ASTM C-266):	
Initial.....	11 minutes
Final.....	30 minutes
Compressive Strength (ASTM C-109):	
3 Days.....	3,800 psi (26.2 MPa)
28 Days.....	6,900 psi (47.6 MPa)
Water Absorption (ASTM C-067):	
1 Day.....	6.83%
Bond Strength (ASTM C-1042):	
28 Days.....	1,192 psi (7.9 MPa)
Freeze Thaw Test (828.03.02):	
50 cycles.....	No delamination
Accelerated Weathering (828.03.02):	
No film defects or color change	
Salt Spray Resistance (828.03.02):	
300 hours.....	No deterioration
Fungus Growth Resistance (828.03.04):	
21 Days.....	No fungus growth

Coverage

Smooth Surface

- First Coat: 150 - 200 ft² per 50 lb. bag
- Second Coat: 300 - 500 ft² per 50 lb. bag

Rough Surface

- First Coat: 100 - 200 ft² per 50 lb. bag
- Second Coat: 200 - 300 ft² per 50 lb. bag

Application Procedures

Preparation

Estimate material and equipment needs before work begins. The surface must be structurally sound, clean and free of dirt, efflorescence, laitance, curing membranes and other contaminants. Large surface voids and cracks should be repaired with Atlas Tech Patch 20 prior to the application of Hydroseal. Cracks with leaking water must be patched with Atlas Plug to stop water seepage. Prior to coating, dampen the surface with water to keep it cool and damp throughout the application process; do not apply Hydroseal over puddled water.

Mixing

Mechanically mix using a slow speed motor and mixing blade to thoroughly blend the material. Do not aerate the mix. Pour approximately 4.0 quarts of clean potable water into a clean mixing container. Slowly begin to mix and add the Hydroseal powder. While mixing, add another 3.0 - 4.0 quarts of water to achieve a completely blended, thick pancake batter consistency. Allow mixed material to "fatten" for approximately 5 minutes. Re-mix and if necessary, add more water to reduce to a batter consistency.

Note: For improved bonding and performance properties, for use on smooth or dense surfaces, and for all trowel applications, add Atlas Acryl-Bond during the mixing process. Instead of using only water to mix the Hydroseal, blend a solution of 3 parts by volume of water to 1 part Acryl-Bond. One 50 lb. bag of Hydroseal will then require 2 quarts of Acryl-Bond blended with 6 quarts of water.

For parge coating and trowel applications, 25 lbs. of clean silica sand may be added to each 50 lb. bag of Hydroseal.

Application

Hydroseal may be applied with a small hand brush, push broom, trowel or heavy-duty sprayer. Dampen the surface with water before application, leave no puddles. Use a short bristle brush or broom to apply the first coat to the surface.

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Application (cont.)

First coat should fill all voids and surface pores. For a uniform appearance, apply Hydroseal to an entire section with each application coat; final strokes should all be in one direction. Allow first coat to dry for 12 - 24 hours before applying a finish coat.

Opened bags should be used immediately and discarded.

Curing

In conditions of high temperatures, high winds or low humidity, Atlas recommends to lightly mist the applied coating with water several times after the material has dried to aid the early curing process.

Cleaning

Clean tools and equipment with clean water. Uncured material may be removed with water. Cured material may be removed mechanically.

Packaging

50 lb. (22.7 kg) bag

Storage

Store in a cool and dry area, out of direct sunlight.

Limitations

- Do not apply when ambient or surface temperature is below 40° F (4° C) or expected to fall below 40° F (4° C) within 24 hours of application.
- Do not apply to floors as the final wearing surface.
- Not recommended for lining fish ponds or swimming pools.
- The entire wall or section should be completed at one time to ensure uniform color.
- If using as a decorative finish, always perform a small test or mock-up prior to full application.

Caution

Contains portland cement and sand. Freshly mixed mortar may cause skin irritation and possible cement burns. Avoid direct contact where possible, wash exposed skin area promptly with water. If any of the cementitious material gets into the eyes, rinse immediately and repeatedly with water and then call a physician. The manufacturer recommends using an approved mask or respirator when working with cementitious material. Do not take internally. Harmful if ingested. Keep out of the reach of children.

Additional precautions and safety information are contained in the Material Safety Data Sheet.

Technical Services

For assistance, contact an Atlas Tech representative at:
858-277-2100 or 1-877-588-2100
Fax: 858-277-0585
Email: info@atlastechproducts.com
Website: www.atlastechproducts.com

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Made in USA.

For professional use only.

Consult Material Safety Data Sheet for more information.

Disclaimer of Warranties: Neither manufacturer nor seller have any knowledge or control concerning the purchaser's use of the product. No expressed warranty is made by manufacturer or seller with respect to the results of any use of the product or container that the product comes in. No implied warranties including, but not limited to, an implied warranty of fitness for a particular purpose are made with respect to the product. Neither manufacturer nor seller assume any liability for personal injury, loss or damage resulting from the use of the product. In the event that the product shall prove defective, buyer's exclusive remedy shall be as follows: Seller or manufacturer shall, upon request of buyer, replace any quantity of the product which is proven to be defective or shall, at its option, refund the purchase price of the product upon return of the product. Manufacturer shall not be responsible for use of this product in a manner to infringe on any patent held by others.



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