

AQUASEAL HEAVY DUTY®



Positive Waterproofing for Concrete & Masonry

MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 5500

MONOCHEM AQUASEAL H.D. is an ionized water miscible Polysiloxane solution that provides a durable and effective invisible shield against water penetration. It is a penetrating product which waterproofs and preserves concrete and masonry surfaces by causing a chemical reaction that solidifies all component parts into one solid mass. It completely stops moisture seepage through sound surfaces. **AQUASEAL H.D.** is not a surface coating or paint and will not change the appearance of a substrate.

BASIC USES

AQUASEAL H.D. is ideal for exterior/interior, unpainted/unsealed *vertical* above grade concrete and masonry blocks, stucco, stones, grout, porous tiles.

ADVANTAGES

- Minimizes surface deterioration caused by weathering.
- It helps control efflorescence in masonry which causes flaking, blistering, bleeding and peeling of paint. As an underseal for latex or oil-based paints, it helps prevent saponification and lengthens the life and color of paint.
- Helps control alkali efflorescence and prevents water from leaking through sound surfaces.
- Can be used as an additive to latex paint: one (1) pint per gallon of latex paint enhances the adhesion, increase the moisture projection and maximizes the washability of paint.
- Semi-transparent color sealer blend: one (1) part latex paint mixed with five (5) parts of **AQUASEAL H.D.**
- Solid color sealer blend: 1st coat: Mix one (1) part of latex paint to five (5) parts of **AQUASEAL H.D.** 2nd coat: Mix one (1) part **AQUASEAL H.D.** to five (5) parts of latex paint.

PREPARATION:

1. The cause of the water infiltration must be determined. The substrate should be inspected to identify repairs or improvements which are necessary prior to application.

Excess Moisture: The source of moisture intrusion (ex. condensation, settling, cracks, plumbing leaks, hydrostatic pressure, settling cracks, earthquake movements, etc.) into the building must be corrected prior to the application of **AQUASEAL H.D.**
2. **AQUASEAL H.D.** should not be used as a substitute for additional details which may be required by Model or applicable Building Codes or Industry Recommendations such as the use of flashing, screeds, weep holes, weep tubes, vents, or additional back-up moisture control systems. Relative to Masonry, it should be considered a water repellent only.
3. Caulk and fill cracks, holes, voids, etc. larger than hairlines (1/16").
4. Treat or clean alkali, lime or efflorescence on the surface with a proper neutralizing agent. Then allow 24 to 48 hours for the surface to dry before application.

TECHNICAL DATA

Composition	Polysiloxane
Active Solids by Weight (ASTM D2369)	10% ±2
VOC Level.....	< 10 g/L
Weight per gallon	9.2 Lbs
Flash Point	None
Penetration	3/4" - 1" approx.

Water Absorption Tests

ASTM C140 (Max. 24 Hrs):.....	< 0.75%
ASTM C642 (Max. 48 Hrs):.....	1.1%

Water Permeance Tests

Reduction in Water Permeance (ASTM C67).....	97%
Reduction in Water Permeance (SS-W-110-C):.....	95% (18 freeze/thaw cycles)
Reduction in Water Leakage (ASTM E514) [Wind Driven Rain]	
Brick.....	98%
Split Face Block.....	93%

Moisture Vapor Transmission, Breathability (ASTM D1653):.....	100%
Scaling Resistance (ASTM C672) 100 cycles:.....	No Scaling

Salt Pounding Test For Concrete

At a depth of 1/2 & 1" per (AASHTO T260-801).....	90% Reduction of Chloride
NCHRP #244, National Cooperative.....	Maximum allowed: 25% per cube
Highway Research Program	Obtained: 13.1%
Chloride content of the untreated cube	Obtained: 12.2% Chloride
30 day pounding test in a 3% NaCl solution	91.7% reduction Chloride ingress

Weatherometer: 2500 hours

Outdoor exposure tests.....	98.8% Repellency
Efflorescence resistance (NBS 883).....	Excellent
UV resistance	Excellent
Polymerized content.....	Excellent
Oxidation resistance.....	Excellent
Paraffins, oil, wax or varnishes	None

5. All preparation, painting, and caulking of joints or cracks should be allowed to cure prior to application.
6. Cure new concrete 28 days before application.
7. Do not apply **AQUASEAL H.D.** to a wet surface. All surfaces must be dry for a minimum of 24 hours following rain. Moisture level should not exceed 15%.
8. In hot, dry weather it is recommended that the surface be slightly damp before application to improve material penetration.

LIMITATIONS:

AQUASEAL H.D. will not form a water-proofing membrane and does not seal inaccessible areas. It will not bridge cracks, fill large pores or compensate for flawed construction. Exposed walls must be capped and the backside of parapet walls must be sealed, flashings must be in place and weep holes and drains installed and functioning (where applicable).



THERMAL AND MOISTURE PROTECTION

WATER REPELLENTS 07190

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APPLICATION:

- **AQUASEAL H.D.** must be applied in a small area prior to doing the complete job to insure proper results and to determine the proper coverage and application procedures.
- Apply with a brush, roller or, for best results, use spray equipment such as a compressor driven airless, pump or Hudson type sprayer. Use low pressure (not to exceed 25 PSI), allowing excess material to run down 10 to 12 inches (back roll all rundowns) assuring enough product has penetrated the surface. TIP SIZE: .035 orifice.
- **AQUASEAL H.D.** should be applied in a uniform manner that saturates the entire surface by using horizontal and vertical passes, working areas from top to bottom.
- **AVOID PUDDLING.** Broom out any puddles that form.
- **AQUASEAL H.D.** can only be diluted with latex paint or stains.
- **AQUASEAL H.D.** should be used in a one coat application unless the surface is very porous. For porous surfaces apply the 2nd coat "wet-on-wet" not exceeding 15 minutes between coats. If the first coat dries, the second coat will be rejected and overlapping may cause a precipitate white salt residue. If this happens, wash the surface using a stiff brush and warm water. Do not allow residue to remain on surface because it will become more difficult to remove.

Masonry and Mortar Joints: Because of their absorbent nature and design, pay extra attention to sealing masonry mortar joints (ex. recessed joints).

AQUASEAL H.D. should be applied in a uniform manner. The 1st coat consists of a light fog spray that wets the entire surface and breaks the surface tension. The fog coat must be followed immediately with the flood coat to achieve maximum penetration. Allow the material to run down 8 to 12 inches. Back rolling it into the substrate isn't required, but will maximize the seal.

AQUASEAL H.D. is to be used in a one coat application. If the surface is porous and an additional treatment is needed, a second coat should be applied after "wet on wet" within 15 minutes. Do not apply more material than can be absorbed into the surface. Excess material remaining may result in a glossy appearance that can alter the adhesion of subsequent applications of paints or other coatings.

Product Qualifications	
Cal Green	Yes
SCAQMD	Yes
CARB	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

PACKAGING:

AQUASEAL HEAVY DUTY can be packaged in one-gallon cans, five-gallon pails, and 55-gallon drums.
 5500-01: One-Gallon Cans
 5500-05: Five-Gallon Pails
 5500-55: Fifty-Five Gallon Drums

ESTIMATED COVERAGE RATES:

ONE COAT APPLICATION (ALWAYS TEST)

SUBSTRATE	SQ/FT/GAL
Concrete block	70-90
Mammoth block	50-60
Split face block	50-60
Brick wall (old)	70-110
Poured Concrete	100-110
Precast Concrete	120-200
Brick Wall (new)	100-150
Stucco	80-100
Painted Surfaces (Flat Latex)	200-250
Tilt-Ups	110-150

These coverage rates are approximations and may vary considerably due to the porosity of the substrate. Always test and obtain approval from the project architect and/or building owner prior to completing a job.

CAUTION:

- **AQUASEAL H.D.** is not recommended for below grade waterproofing or where hydrostatic pressure is present.
- **AQUASEAL H.D.** will not prevent water penetration or help control alkali efflorescence through unsound or cracked substrates.
- Do not apply in windy conditions or at temperatures below 40°F or above 90°F.
- Do not apply if rain is anticipated within 24 hours. Allow the surface to dry at least 24 hours after rains or until the surface moisture level is below 15%.
- Do not use **AQUASEAL H.D.** as a clear sealer over wood products, in particular redwood, pine or cedar. It will create a reaction with the acidic resin and turn the surface darker. For best results, substitute **AQUASEAL 2** water base formula for all wood products.
- Protect shrubbery, plants, grass, glass, metal and other glazed surfaces during application. Clean drips, runs and overspray residue while still wet, using detergent and water. Dried material may require a solution of vinegar and water or petroleum distillates for removal.
- If allowed to dry, **AQUASEAL H.D.** can etch metal, glass, and other glazed, non-porous materials.

CLEAN UP

Wash all equipment with soapy water immediately while the material is still wet.

STORAGE & SHELF LIFE

AQUASEAL HD is good for one year in original unopened container, stored at room temperature.

WARRANTY INFORMATION: MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. It is your responsibility to thoroughly test the product in your specific application to determine its safety and performance capabilities. Since use of this product is beyond our control, MONOPOLE, INC. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specifically written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE disclaims any other expressed or implied warranties, including the warranty of merchantability and fitness for use. Your exclusive remedy and MONOPOLE'S sole liability for breach of warranty is limited to a refund of the purchase price or replacement of any product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages, including labor charges.