

AQUA-STOP PRIMER

A HIGH PERFORMANCE, TWO COMPONENT, 100% SOLIDS, POLYURETHANE DAMP CONCRETE PRIMER DESIGNED TO REDUCE MOISTURE VAPOR TRANSMISSION

AQUA-STOP PRIMER is a two-component, deep-penetrating, 100% solids, zero VOC polyurethane primer that has been formulated as a high performance damp concrete primer. Aqua-Stop Primer penetrates and seals with little bubbling to allow ease of topcoat application. Aqua-Stop Primer enables application of broadcast and chip systems without any surface refinishing.

USES AND ADVANTAGES

- Exhibits low sensitivity to substrate moisture
- Penetrates and seals with excellent adhesion
- Stable at low temperatures
- Long working time for ease of application
- Creates water polymer penetrating network within porous substrates
- Garage floor coatings
- Industrial concrete floors
- Retail concrete floors
- Hospital concrete floors
- Foundation walls

PERMABILITY RATING

- Applied at 4 mils DFT, Aqua-Stop Primer is qualified to be categorized as **impermeable** pursuant to ASTM E96 since Aqua-Stop Primer possesses a moisture vapor transmission rate or permeability rating of 0.51 perm.
- Applied at 10 mils DFT, Aqua-Stop Primer is qualified to be categorized as **impermeable** pursuant to ASTM E96 since Aqua-Stop Primer possesses a moisture vapor transmission rate or permeability rating of 0.35 perm.
- The dynamic moisture pressure

required to cause structural fault at the interface of the Aqua-Stop Primer and concrete substrate exceeds 25 pounds per thousand square feet.

- The backbone functionality of Aqua-Stop Primer will provide a mechanical bond with epoxy, polyurethanes, urethanes and polyurea cured films with proper mechanical preparation.
- Additionally the Aqua-Stop Primer backbone will have chemical bond with these same materials after performing approved chemical surface preparation methods.

SURFACE PREPARATION

Make sure substrate has been prepared according to manufacturer's specifications for that particular substrate. The surface must be clean but not dry to achieve proper adhesion. All cracks, joints and seams should be filled with a polyurea, high elastomer material after priming. Avoid acrylic caulks or any compound with silicone.

Concrete

New concrete should be allowed to cure for a minimum of 30 days at 70°F. Substrate should be free of loose materials, efflorescence, dust, dirt, mold, mildew, grease, and all other foreign materials. Pressure washing and/or acid etching is recommended. Substrate should have no standing water but should be uniformly wet. It is recommended that applicator wets the surface of the concrete to assure uniform moisture content of the concrete. All standing water must be removed (i.e., vacuumed) prior to application. If applicable, the floor should be prepped by degreasing with a degreaser, then mechanically abraded

TECHNICAL DATA

Finish.....Glossy
Color.....Unpigmented/Gray
Mix Ratio(1) Part A: (1) Part B
Tear Strength, ASTM D624.....200 pli
Tensile Strength, ASTM D638.....2400 psi
Elongation, ASTM D41245%
Solids by Weight.....100%
VOC Content.....0 g/L
Viscosity at 77 °F (25 °C)
Part A..... Not Est.
Part B.....130

Flash Point

Part A.....>400 °F (>204 °C) *Closed Cup*
Part B.....>230 °F (>110 °C) *Closed Cup*

Application Conditions (Substrate)

50 °F (10 °C) min, 95 °F (35 °C) maximum
Pot Life.....20-40 minutes
Working Time.....45 minutes @ 77 °F (25 °C)
Dry to Touch.....2-4 hours @ 77 °F (25 °C)
Recoat Window...2-24 hours @ 77 °F (25 °C)
Return to Use.....4-24 hours @ 77 °F (25 °C)

Adhesion to Concrete (Unprimed)

Test Method: DelFesko Posi Test AT-CM
Results: 450 psi (substrate failure)

Polyurea Top Coat Adhesion

Test Method: Elcometer
Results: > 500 psi

Chemical Resistance

Immersion at 25 °C for 7 days
Water (at 25 °C).....Excellent

THEORETICAL COVERAGE RATE

	<u>Minimum</u>	<u>Maximum</u>
Wet mils (microns).....	3.0 (76)	5.0 (127)
Dry mils (microns).....	3.0 (76)	5.0 (127)
Coverage	300 ft ² /gal	500 ft ² /gal
	7 m ² /l	12 m ² /l

Theoretical Yield

@ 1 mil/25 microns dft.....1600 ft² /gal
39.3 m²/l



60 REAR NEWHALL STREET

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to achieve a 3-5 mil anchor profile.

Metal

Prepare surface pursuant to SSPC surface preparation standard SP 5.

Wood

For wood applications, apply mixed Aqua-Stop Primer with a roller or brush, making sure that substrate is thoroughly absorbing the product. If Aqua-Stop Primer is not penetrating the substrate, surface preparation is not complete.

MIXING

The product should be at room temperature prior to mixing, to achieve proper flow and wetting. Avoid mixing and application of this product if the substrate temperature is below 50°F or above 95°F. Thoroughly mix Side-A (ISO) and Side-B (resin) in the 1/1 mix ratio. Blend thoroughly for approximately 2 minutes with a “Jiffy Mixer”, “Squirrel Mixer”, or “Rabbit Mixer” attached to a low-speed (400-600 RPM) electric drill. DO NOT use a paddle mixer or any mixers that will entrap air when mixing. This product is designed to be applied thin.

APPLICATION

The recommended concrete application method of this product involves pouring it in a narrow line directly onto the concrete surface, then spreading it with a squeegee. Spread the coating in a continuous manner from one side of the area being coated to the other. Immediately follow with a nap shed resistant roller. Anti-slip materials and decorative materials can be used with Aqua-Stop Primer. Evenly broadcast these materials over the still wet surface. A compatible top coat is recommended after the Aqua-Stop Primer has reached a tack free or dry to touch condition.

Application Equipment

- Use ¼” to 3/8” foam rollers for application

- Note: Use the “black” foam, not the “yellow” foam rollers
- Good quality roller pins are suggested
- Paint tray with disposable paint tray liners
- Measuring and mixing containers.
- Stirring equipment and stirring sticks

PACKAGING

10 Gallon Kit: One 5 gallon pail Part-A (ISO) and one 5 gallon pail of Part-B (Resin).

CLEANUP

Cured product may be disposed of without restriction. Clean Side-A (ISO) with acetone. Clean Side-B (resin) with warm, soapy water. Mixed, uncured product may be cleaned up with acetone. Follow manufacturer’s instructions when using acetone. Cured product cannot be removed off of substrate without use of mechanical equipment. Uncured product must be disposed of according to local, state, and federal laws.

PERFORMANCE TIPS

- For concrete, always perform Calcium Chloride test as per ASTM F1869.
- Where primers are used, do not fill the profile on concrete or steel with excess primer.
- Allow the primer to become “tack-free” before coating (usually 2 hours).
- Surface should not be allowed to get wet between primer coat and base coat.
- The surface is “tack-free” when the primer does not transfer onto your gloves when you press down on it.
- For immersion applications, a minimum total dry film thickness of 40 mils (1016 microns) on steel

and 60 mils (1524) microns on concrete is required.

- For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.
- For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas. For concrete all cracks must receive a 6” wide by 30 mil (762 micron) dft bridge coat after cracks have been properly filled.

WARNING

WARNING! Skin and eye irritant. May cause skin sensitization. **FIRST AID:** Eyes – Flush with water for 15 minutes and call physician. Skin – Wash thoroughly with soap and water. Ingestion – Do not induce vomiting. Call Physician immediately. Use in well ventilated area. Refer to the MSDS sheet before use.

KEEP OUT OF REACH OF CHILDREN.

For technical assistance call 978-453-8881.

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LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.

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- Concrete Patching & Repair Products
- Masonry Waterproofing Products
- Acrylic Admixtures & Bonding Agents



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