

# AQUASEAL® 20



Modified Silane Water Repellent for Concrete & Masonry



MADE IN U.S.A.

## PRODUCT DESCRIPTION:

ITEM NO. 2020

**AQUASEAL 20** is a modified silane water repellent. It is a high quality specialty product designed to impregnate both normal and reinforced concrete.

**AQUASEAL 20** is a unique emulsion that can be applied in a one coat application using conventional spray equipment. The active silane ingredient penetrates into the substrate. Upon reaction with the substrate, it releases ethanol and is converted into a polymeric silicone resin. The active ingredient is the same as in conventional liquid impregnation agents. Impregnation with **AQUASEAL 20** does not clog the pores or capillaries, nor does it affect its ability to "breathe".

### BASIC USES:

**AQUASEAL 20** is designed to penetrate deep into concrete pores providing the optimum protection against the absorption of water, pollutants, and freeze/thaw cycles. **AQUASEAL 20** is used to protect precast and prestressed concrete, brick substrates, stucco, Dryvit, and other concrete and masonry surfaces. Walls, floors, walkways, ramps, bridges, parking decks, buildings, stadiums, airport aprons, etc. are ideal applications.

### ADVANTAGES:

- \* Deep penetrating
- \* Optimum resistance to efflorescence
- \* Does not alter the appearance of the substrates
- \* Dramatic reduction in water absorption
- \* Comprehensive protection against freeze/thaw cycles
- \* Solvent-free, aqueous and environmentally compatible
- \* Low volatility
- \* Provides good adhesion for paints
- \* Warranted for ten years (vertical application)

### PACKAGING:

**AQUASEAL 20** is packaged in one-gallon cans, five-gallon pails, and fifty-five gallon drums.

ITEM NO. 2020-01: One-Gallon Cans

ITEM NO. 2020-05: Five-Gallon Pails

ITEM NO. 2020-55: Fifty-Five Gallon Drums

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

### TECHNICAL DATA:

Composition.....	Modified Silane
Solids by Weight (ASTM D2369) .....	20%
Appearance.....	Milky liquid, dries clear
VOC Level.....	<50 g/L
Sheen.....	Flat
Weight per Gallon .....	8.41 Lbs/Gal
pH.....	7.5
Flash Point (ASTM D3278) .....	166°F. 74°C.
Drying Time .....	1-2 Hours
Penetration .....	3/8" (0.95 cm)
Recoat Time (wet-on-wet) .....	10-20 Minutes
Reduction in Water Leakage (ASTM E514) .....	99.5%
Water Repellency	
(ASTM C67) .....	98.6% Effective
(SS-W-110-C).....	98.4% Effective
(ASTM C140) .....	96% Effective
(ASTM C642) @48 Hours .....	91% Effective
Moisture Vapor Transmission	
(ASTM E96).....	83% Minimum
(ASTM D1653-03) .....	85% Minimum
Accelerated Weathering @2500 hours	
(ASTM G23) .....	No Loss in Repellency
Scaling Resistance @100 Cycles	
(ASTM C673) .....	Zero Rating, No Scaling
Chloride Resistance (AASHTO T259 & AASHTO T260).....	Resistant
NCHRP Report 244 .....	>90%
Efflorescence Resistance (NBS 883) .....	Rated Highest
Warranty (Vertical Applications) .....	10 Years

### PREPARATION:

•All surfaces must be unpainted/unsealed, cured, clean and free of all penetration inhibiting contaminants like curing compounds, dust, dirt, oils, release agents, loose aggregates, alkali, efflorescence, chemical films, etc.

•Repoint loose or missing mortar. Recaulk control and expansion joints. Make all repairs to concrete surfaces prior to application. Allow mortar, repair materials and sealants to cure per manufacturer specifications prior to application of **AQUASEAL 20**.

### APPLICATION:

**ALWAYS CONDUCT A TEST PATCH** prior to doing the complete job to ensure the proper results and determine the approximate coverage and application methods. Allow the area to dry thoroughly before the architect and/or building owner inspects the application for approval.

•**AQUASEAL 20** may be applied using a low pressure sprayer, roller or brush following the recommended coverages. Allow horizontal surfaces to dry prior to opening to traffic.

HORIZONTAL APPLICATIONS: Saturate the unsealed



THERMAL AND MOISTURE PROTECTION

WATER REPELLENTS 07190

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surface. If the surface is still moisture absorbent after the 1st coat, apply a lighter second coat wet-on-wet. Mop of all puddles 15-20 minutes after application.

**VERTICAL APPLICATIONS:** Apply a light coat that fully wets the surface and breaks the surface tension, followed immediately with a liberal saturating coat, allowing 6"-8" rundowns, to achieve maximum penetration. Back rolling run downs is optional and will maximize the product performance. Do not allow puddles to dry.

- On very porous substrates, such as split face block, fluted blocks, lightweight blocks, scored blocks, etc. a second application should be applied if the surface is still moisture absorbant after the first coat. Apply the second coat wet-on-wet with the first (approximately 15 minutes after the first coat).
  - Stir thoroughly before use to avoid settling.
- Clean equipment with mild detergent and clean water immediately after use (while the material is still wet).

**CAUTIONS:**

Do not apply more material than can be absorbed into the surface. Excess material may result in a blotchy or glistening appearance that can attract dust and alter the proper adhesion of subsequent paint applications. Mop off all remaining puddles 15-20 minutes after application.

**APPLICATION LIMITATIONS:**

- AQUASEAL 20** is not intended for below grade waterproofing or for use under Hydrostatic pressure.
- Materials should not be applied when the temperature is below 50°F or above 90°F.
- Do not apply if rain is anticipated within 24 hours after scheduled application, or in high winds.
- Allow the surface to dry 24-48 hours after rain or until the surface moisture level is below 15%.
- Use "as-is"; do not dilute or alter the product.

**PRECAUTIONS:**

Keep the container tightly closed when not in use. Do not ingest. Avoid contact with skin and eyes. See MSDS.

**SHELF LIFE:**

**AQUASEAL 20** is good for one year in original unopened container, stored at room temperature.

**COVERAGE:**

Horizontal Surfaces .....	100-120 sq/ft/gal (concrete, brick, pavers, unglazed tiles)
Vertical Surfaces.....	110-160 sq/ft/gal (tilt ups, precast concrete, cast-in-place, brick, stucco, plaster, etc)
Split Face, CMU, Mexican Pavers, Sandstone, etc.....	60-80sq/ft/gal

*The above figures are approximations which will vary based on substrates and application methods. **ALWAYS TEST** for job specific spread ratios.*

**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.