

AQUASHIELD PRIMER

DEEP PENETRATING WEATHERPROOF COATING FOR CONCRETE STRUCTURE

DESCRIPTION

AQUASHIELD PRIMER is a ready to use single component liquid of silane -siloxane compounds, designed to protect concrete structure, decks and pavements against chloride attack, moisture and weather. AQUASHIELD PRIMER reacts chemically with the concrete surface to provide a highly effective chloride screen and water barrier.

PRIMARY APPLICATIONS

- Parking Structures
- Lane barrier
- Ramp & Bridges
- Exterior concrete surface
- Suitable for existing & new structure
- Structure exposed to atmospheric contaminants

FEATURES BENEFITS

- Transparent
- One part system easy to apply
- Penetrates deep into structure to form hydrophobic barrier
- Provides an efficient, continuous chloride barrier
- Renders new concrete virtually free of surface scaling
- Excellent protection against fuel, oils and atmospheric contaminants
- Allow water vapour to escape from structure
- Protects reinforcing steel against the corrosive effects of surface absorbed chlorides and moisture
- Provides high water repellency characteristic
- Economical to use because of its durability enabling it to last for many years

TECHNICAL INFORMATION

Typical Engineering Data
The following results were laboratory conditions

Drying Time

For foot traffic	@4-6 hours
For wheel traffic	@10-12 hours
Type	Silane-Siloxane
Flash point	50 deg C
Shelf Life	18 months under warehouse conditions

Test Specimens NCHRP #244 Test Methos

4000 psi (28 mpa) 3" (76mm) x 6" (152mm) cylinders 5.25% air entrainment 15% NaCl solution, 21 day results

	% weight Gain	Chloride Screened	Repellency Factor
Untreated Cylinder	2.70%		
Treated with Aquashield primer	0.20%	97%	94%

Test Specimens ASTM C642

4000 psi (28 mpa) Water Absorption
5.25% air entrainment 24 hours results

	% weight Gain	Water Repellency Factor
Untreated Cylinder	4.9%	
Treated with Aquashield primer	0.37%	94%

Test Specimens ASTM C642

4000 psi (28 mpa) Scaling
5.25% air entrainment 24 hours results

	% weight Gain	Water Repellency Factor
Untreated	4 moderate to severe scaling	5 severe scaling
Treated with Aquashield primer	0-No scaling	0-No scaling

COVERAGE

Smooth surface	7.0m ² / ltr
Smooth surface	5.0m ² / ltr

PACKING

AQUASHIELD PRIMER is available in 210 liter drums and 20 liter pails

"High Quality Construction Chemicals"

CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES

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DIRECTION OF USE

Surface Preparation:

Surface must be free of all dirt's and debris. All joint sealants and caulks should be in place before applying AQUASHIELD PRIMER when curing compound is used, high pressure water blast or clean up with an aggressive scrubber is required at 45 days or longer after application the concrete surface should be dry for at least 24 hour for maximum penetration and best results. In case of old concrete remove all foreign matter that could prevent absorption like dirt, dust, tar, oil, etc Membranes of any kind must be removed

Placement :Flood surface using low pressure sprayer, roller, or broom. Broom or Squeegee material around for even distribution, Allow the surface to absorb AQUASHIELD PRIMER solution and follow immediately with second application before the surface dries. Redistribute any puddles or free standing AQUASHIELD PRIMER

Vertical surface

Apply by sprayer, roller or brush in two applications from the bottom up. Be sure to apply "wet-on-wet" as described for horizontal surface

The primer should be allowed to dry for a minimum of two hours before application of AQUASHIELD. Under no circumstances should the primer be over coated until the surface is properly dry.

Clean up

Use mineral spirits, XYLENE or CEMTEC SOLVENT to clean tools and equipment

PRECAUTIONS & LIMITATIONS

- Do not dilute AQUASHIELD PRIMER with solvent or Thinner
- Do not use over saturates surface or curing membranes
- Ramp & Bridges
- Exposure to moisture will cause gelation
- In case of contact with skin, rinse with water In case of contact with eyes, rinse immediately with clean water seek medical advise.

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, application and End Users.

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.

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