

CONGUARD PRIMER

DEEP PENETRATING WEATHER PROOF COATING FOR CONCRETE STRUCTURE (Silane -siloxane based)



DESCRIPTION

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

FEATURES & BENEFITS

- Transparent
- One part system easy to apply.
- Penetrates deep into structure to form hydrofobic 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 the structure.
- Protects reinforcing steel against the corrosive effects of surface absorbed chlorides and moisture.
- Provides high water repellency characteristics.
- Economical to use because of its durability enabling it to last for many years.

BASIC USES

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

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Drying Time For foot traffic	: @ 4 - 6 hours
For wheel traffic	: @ 10 - 12 hours
Type	: Silane-Siloxane
Flash Point	: 50 ^o C
Shelf life	: 12 months under warehouse condition

Test Specimens

4000 psi (28 MPa)
3" (76mm) x 6" (152mm)
cylinders 5.25%
15% air entrainment

NCHRP #244 Test Method

Naci solution
21 Day results

	% weight gain	chloride screened	repellency factor
Un treated cylinder	2.70%	-	-
Treated with CONGUARD PRIMER	0.20	97%	94%

Test Specimens

4000 psi (28 MPa)
5.25% air entrainment

ASTM C 642

Water Absorption
24 hours results

	%weight gain	water repellency factor
Un treated	4.9%	-
Treated with CONGUARD PRIMER	0.37	94%

Test Specimens

4000 psi (28 MPa)
5.25% air entrainment

ASTM C 672

Scalling
Resistance

	50 cycles	125 cycles
Un treated	4 moderate to severe	5 severe scalling
Treated with CONGUARD PRIMER	0-No scalling	0-No scalling

DIRECTION FOR USE:

Surface Preparation:

Surface must be free of all dirt and debris. All joint sealants and caulks should be in place before applying CONGUARD PRIMER. When curing compound is used, a 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 hours for maximum penetration and best results. In case of old concrete remove all foreign substance that could prevent absorption-dirt, dust, tar, oil, etc Membranes of any kind must be removed.

COVERAGE	Smooth surface 7.0 m ² / liter Rough surface 5.0 m ² / liter
PACKAGING	Available in 210 liter drums and 20 liter pails.
COLOR	Contact CMCI tech dept.

PLACEMENT

Flood surface using low pressure sprayer, roller or broom. Broom or squeegee material around for even distribution. Allow the surface to absorb CONGUARD PRIMER solution and follow immediately with second application before the surface dries. Redistribute any puddles or free-standing CONGUARD 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 CONGUARD. 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 CONGUARD PRIMER with solvent or thinner.
- Do not use over saturated surfaces or curing membranes.
- 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 advice.

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, applicators and End Users.

"High Quality Construction Chemicals"
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The Technical Specification information and recommendations 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 warranty and or responsibility is assumed on the performance of work completion executed with use of our products.