CHEM-SHIELD CCC800

Textured Structural Coating

PRODUCT DESCRIPTION

CHEM-SHIELD CCC800 is a remarkably beautiful textured coating formulated to provide aesthetic variations and achievements while adding durability and protection for new constructions or upgrading existing structures.

CHEM-SHIELD CCC800 forms a heavy-duty thick film finish for the aesthetic enhancement and protection of exterior and interior surfaces. The finish provides a uniform texture which minimizes surface defects without altering architectural features of the surface.

CHEM-SHIELD CCC800 has a base of Polyprene, a durable and waterproof synthetic elastomer-polyester resin. It is not an emulsion, contains no vinyl or acrylic. CHEM-SHIELD CCC800 is unexcelled in beauty and performance.

The tough, flexible CHEM-SHIELD CCC800 film provides fungicidal, fire retardant, mildew resistant and insulating values not available in other building materials concept. CHEMSHILED CCC800 provides the maximum weathering protection for construction assemblies.

CHEM-SHIELD CCC800 can be applied to many types of substrates including: Steel, Concrete, Wood, Brick, Plaster, Concrete Block, Sheetrock, Galvanized Metal, Stucco, Masonite, and Plywood.

CHEM-SHIELD CCC800 is available as smooth, sand and perlite textured. Perlite textures are available in 3 grades; fine, medium, and heavy.

CHEM-SHIELD CCC800 has been used extensively by various state highway departments to finish concrete bridge structures, bridge abutment, median strips, retaining walls, etc.

FIELDS OF APPLICATION

- ☐ Concrete: Reduces necessary rubbing and finishing handwork. Ideal for bridges, precast buildings and all mass concrete structures.
- ☐ Old, new metal buildings: Makes them look like concrete, insulates, soundproofs, and resists corrosion.
- ☐ Stucco, concrete block: no patching or large cracks necessary, bridges and waterproof hairline cracks.
- ☐ Plywood: inexpensive decorated panels, columns, channels, raised designs can be formed with plywood and finish with CHEM-SHIELD CCC800 to replace expensive concrete with stucco.

CHEM-SHIELD CCC800 can be used in Bridges, Parking garages, Street Median strips, Retaining walls, Stadiums, Desalination Plants, Industrial Plants, Apartment Buildings, Waste water treatment plants.

PRODUCT FEATURES

- ☐ Outstanding adhesion, literally welds itself to any substrate.
- ☐ Contains no lead or mercury compounds, yet is completely resistant to fungi and mildew.
- ☐ Contains no silicone to affect recoatability, yet is wear and stain resistant because of an effective antipinholing substance with a low friction coefficient.
- ☐ Tough and flexible membrane
- ☐ Fire retardant
- ☐ Very low water permeability

PACKAGING

Product	Packaging
CHEM-SHIELD CCC800	5 GAL (18.925 LITER) PAIL
	55 GAL (208 LITER) DRUM

TECHNICAL DATA

Property	Value @ 75°F (25°C)	Test Method
Specific gravity (smooth texture)	1.02	ASTM D-1475
Touch to Dry	4-8 hours	-
Full set	21-28 days	-
Dry film property		
Flexibility	No cracking	Material applied to tin plate at a coverage rate of 50±5 ft2 per Gallon (1.23±0.12 m2/Liter) & bend to a radius of 180 degrees over ¼" mandrel
Moisture Vapor permeability	0.35 g/100 in^2 per 24 hours	ASTM E-96
Resistance to hydrostatic pressure, 150 ft (45.7 m)	Excellent	-
Accelerated weathering	Exceeds 5000 hours and shows No chipping, flaking or peeling.	Exposure test in an Atlas Twin-Arc Weatherometer at an operating temperature of 145°F
Fungus growth	None	TT-P-29B
Freeze-thaw Resistance, 50 Cycles	No Effect	-15°F/ 1H/77°F/1H (-26°C/1H/ 25°C/1H)
Combustion & Fire Retardance	Material doesn't support combustion (No flame at 1000°F. Flame starts only at 1450°F on surface at the edge and stops when removed from furnace)	Electric muffle furnace
Salt spray resistance 5% solution, 600 hours	No effect	Federal Standard Test 141 A

Coverage: CHEM-SHIELD CCC800 is applied in a single coat at a coverage rate of 50±5 ft^2 per gallon (1.23±0.12 m^2/Liter). This coverage rate will yield a dry film thickness of 22-26 mils (550 to 650 microns).

Drying Time: CHEM-SILED CCC800 dries to touch in 4 to 8 hours and to a reasonable hardness overnight. Full set is reached 3 to 4 weeks.

Color: CHEM-SHIELD CCC800 is available in 24 standard and 4 accent colors. Custom colors are available upon request.

Corrosion Resistance:

10% Sulfuric Acid	Slightly dull, No rusting
5% Sulfurous Acid	Slightly dull, no rusting
5% Nitric Acid	Slightly dull, No rusting
5% Acetic Acid	Slightly dull, No rusting
5% Chromic acid	Slightly dull, No rusting
10% Calcium Chloride	No Effect 500 hours
Hot Water - 72 hours, 160°F	Slightly Dull

APPLICATION DATA

Application Equipment: In general, experience has indicated that the most satisfactory method of applying CHEM-SHIELD CCC800 is spray application. However, under certain conditions, roller application may be used. Refer to CHEM-SHILED CCC800's technical bulletin for more information.

General Surface Preparation: Surfaces to be coated shall be free from efflorescence, flaking coatings, rust, mill scale, dirt, oil and other foreign substances. Coatings shall be applied only to surfaces that are free of surface moisture as determined by light and touch.

SANDBLASTING: Wet or dry, wet sandblasting is preferred in areas where dirt concentration is a problem. All surface to dry completely before application of CHEM-SHIELD CCC800. It is not necessary to remove all paint or other coatings, only loose, oxidized, or deteriorated must be removed. Surface will probably appear mottled with some old material still evident. This process opens pores in the surface and reveals hidden defects that may be properly repaired.

WIRE BRUSHING, SCRAPING: Can affect a proper preparation when material is extremely loose and peeling. Do not brush or scrape well bonded material until it becomes glossy. Air driven scrapers are recommended.

MASKING: All areas not to be coated with CHEM-SHIELD CCC800 shall be securely masked with proper size masking tape and masking paper. Hand shield should be used only by experienced applicators.

Refer to CHEM-SHILED CCC800's technical bulletin for specific surface preparation on:

- Concrete
- Concrete block, brick & porous brick
- Plaster and stucco
- Aluminum, Steel & Galvanized Metal
- Sheet Rock
- Wood, siding, Mosnite and plywood

Limitations: Do not apply on surfaces, which have been sealed with curing compounds or form release agents. Application at ambient temperatures below 40º (5°C) is not recommended.

CLEANING

Clean all equipments that used CHEM-SHIELD CCC800 with suitable solvent. Mineral spirits can be used for this purpose.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperatures. Store in dry and cool conditions between 40ºF (5°C) and 77ºF (25°C). Product can be stored in dry cool condition for 2 years period.

SAFETY PRECAUTIONS

After full curing, CHEM-SHIELD CCC800 is physiologically harmless. As with all chemical products, care should be taken during the use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. The uncured mixture can cause irritation of the skin. The best protection is to wear protective gloves mask and goggles while working. The empty containers may contain residues of the product and should not be used for any purpose, and should be disposed off in accordance with local regulations. Refer to product's Material Safety Data Sheet for further information.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International Chem-Crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. AM02519.

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