



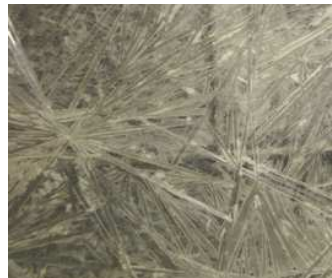
CHEM-CRETE PAVIX[®] 100

Concrete Water & Moisture Protection

Used for treatment and protection against water and moisture associated problems for all concrete and cementitious structures

PRODUCT DESCRIPTION

CHEM-CRETE PAVIX CCC100 is an environmentally friendly, water-based, penetrating sealer designed to protect concrete against problems associated with temperature and water, such as thermal cracking, freeze/thaw cycles, chloride ion penetration and helps reduce alkali silicate reactions all in a single application. PAVIX CCC100 uses patented dual crystalline technology that keeps treated concrete reasonably dry, thus helping to eliminate most water and moisture associated problems. The protective properties are a distinctive water repellent and crystallization process of hygroscopic and hydrophilic technology, providing a triple action moisture blocker system. PAVIX CCC100 contains no VOC's and is easy to apply. It is ideal for concrete where moisture and freeze/thaw cycles are detrimental to its longevity. PAVIX CCC100 will prolong the life span of the concrete and will dramatically reduce maintenance cost.



ADVANTAGES & BENEFITS

- Can be used on existing & existing concrete.
- **100% Green, environmentally safe & non-toxic.**
- Eliminates damage caused by repeated freezing and thawing cycles.
- Prevents concrete scaling.
- Seals and protects cracks up to 1/16th inch (1.5 mm).
- Reduces Alkali Silica Reactions and can reduce silicate dusting.
- Can help reduce Calcium Oxychloride reaction due to use of magnesium chlorides.
- Reduces and/or eliminates early joint deterioration.
- Prevents penetration of chloride ions from de-icing salts.
- Excellent repelling properties that help prevent water, jet fuel and oil from over saturating into the surface.
- Helps concrete stay whiter and brighter
- Resists aggressive chemicals such as hydrochloric acid (3%) & caustic products.
- Protects reinforcing steel bars against corrosion without any negative effect on existing steel cathodic protection.
- Maintains joint sealant adhesion.
- Can be applied vertical, horizontal and overhead.
- Provides long lasting internal waterproofing and moisture blocking from positive and negative sides.

- Eliminates fungal growth.

FIELDS OF APPLICATION

PAVIX CCC100 can be used as a treatment and protection against water and moisture associated problems for all concrete and cementitious structures.

- | | |
|------------------|--------------------------|
| Airports | Airport Taxiways |
| Tunnels | Bridges, Roads & Bridges |
| Sea Ports | Concrete Structures |
| Parking Surfaces | Sidewalks & Drives |

PACKAGING

Product	Packaging
CHEM-CRETE PAVIX CCC100	1 GAL (3.785 LITER) JUG
	5 GAL (18.925 LITER) PAIL
	55 GAL (208 LITER) DRUM

TECHNICAL SPECIFICATIONS

Physical Properties

Specific Gravity	1.1 – 1.2
Viscosity	2.4 centipoises
Freezing Point	28°F (-4°C)
Boiling Point	219°F (104 °C)
Color	Clear
Environmental Hazards	None
Odor	None
Toxicity	None
Fumes	None
Flammability	None

Product Performance: PAVIX CCC100 complies with the following test standards:

Fully Cured or Existing Concrete

- ASTM C1202-91 Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration.
- AASHTO T260 Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials.
- AASHTO T277 Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration.
- ASTM C-1567 Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar Bar Method).
- ASTM C1218 Water-Soluble Chloride in Mortar and Concrete.
- ASTM D6489-99 Determining the Water Absorption of Hardened Concrete Treated with a Water Repelling Coating.
- ASTM C642-97 Density, Absorption, and Voids in Hardened Concrete.
- ASTM C457-98 Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete.
- ASTM D7234: Pull-Off Adhesion Strength of Coatings on Concrete
- ASTM D4541-95 Pull-Off Strength of Coatings Using Portable Adhesion Testers.

- ASTM C1583: Bond Strength or Tensile Strength of Overlay Materials by Direct Tension
- AASHTO T259-00 Resistance of Concrete to Chloride Ion Penetration.

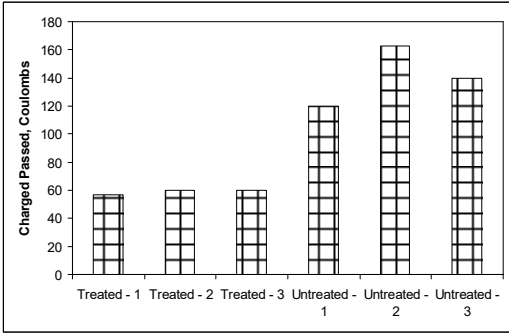


Fig. 1: ASTM C1202-91 & AASHTO T259: Chloride Ion Penetration tests on treated & untreated concrete samples

- ASTM C666-97 Resistance of Concrete to Rapid Freezing & Thawing.

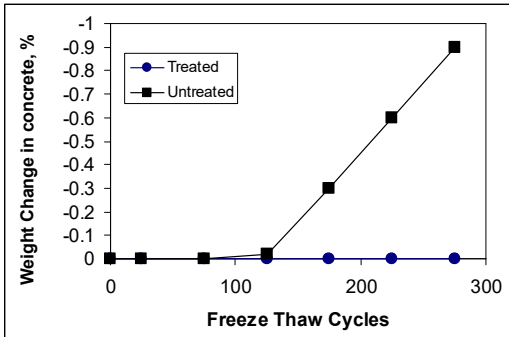


Fig. 2: ASTM C666-97: Freezing & Thawing effect on treated & untreated concrete samples

- ASTM F609-96 Standard Test Method for Using a Horizontal Pull Slipmeter (HPS).
- ASTM E303-93 Measuring Surface Frictional Properties Using the British Pendulum Tester.

Fresh Concrete

- ASTM C672-98 Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals.

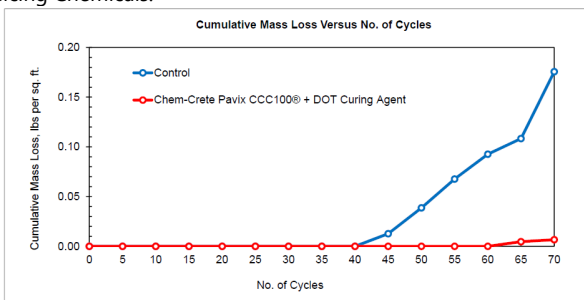


Fig. 3: ASTM C672-98 Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals.



Control Sample without Pavix CCC100 and Curing Compound after 70 cycles of Freezing and Thawing



Sample with Pavix CCC100 and Curing Compound after 70 cycles of Freezing and Thawing

- ASTM C156 Standard Test Method for Water Loss [from a Mortar Specimen] Through Liquid Membrane-Forming Curing Compounds for Concrete

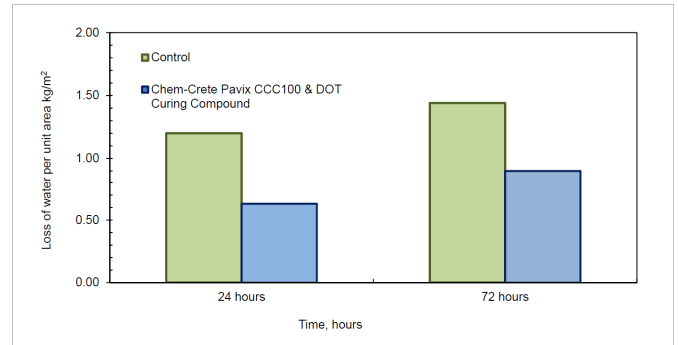


Fig. 4: ASTM C156: Water Loss Through Liquid Membrane-Forming Curing Compounds for Concrete – Fresh Concrete Test

APPLICATION

Use for treatment and protection against water and moisture associated problems for all concrete and cementitious structures.

Fully Cured or Existing Concrete: Repair and seal joints, cracks and voids greater than 1/16th inch prior to application. Concrete surfaces must be clean and sound prior to application of the product. Proper cleaning will open the surface pores and capillaries to enhance the penetration process. Compressed air can be used to remove dust and loose particles from the surface. Flushing the area to be treated with water can improve the cleaning process, however for heavily contaminated areas; special concrete cleaning agents such as Chem-Crete CONCLEAN CCC060 can be used to remove dirt, grease and oil from those areas.

For large-scale applications, such as airport runways, it is recommended to spray the product using a heavy-duty commercial sprayer.

Fresh Concrete: After the desired finish has been achieved (i.e. broom finish), and the concrete supports foot traffic, apply PAVIX CCC100 within a minimum of 30 minutes up to 8 hours depending upon ambient conditions. Apply at a coverage rate of 150 sq. ft. per gallon in one (1) coat. Do not allow the product to puddle. Make sure surface has no bleed water and is strong enough to support the applicator's weight.

Curing Compound Required: After the PAVIX CCC100 application is dry, or a minimum of 30 minutes, proceed to apply a D.O.T. approved curing compound to continue the concrete's curing process.

Coverage: Apply at an average coverage rate of 150-175 ft²/gal (3.7-4.3 m²/liter) in one coat. Do not attempt additional coatings.

Limitations: Do not apply PAVIX CCC100 in the following cases:

- If temperature falls below 50°F (10°C).
- To areas previously treated with sealing agents unless the sealers are removed by chemical or mechanical means.

STORAGE

PAVIX CCC100 must be stored under room temperature. Cold temperatures may cause the product to crystallize. Shelf life is two years in its original unopened packaging. **Do Not Allow Product to Freeze.**

SAFETY PRECAUTIONS

As with all construction chemical products, adequate precautions and care must be taken during usage and storage. Avoid direct contact with foodstuff, eyes, skin, and mouth. Any direct contact with skin should be washed thoroughly with clean running water and soap.

Always wear protective goggles and gloves. In case of eye contact, flush for 15 minutes with warm water. If eye irritation persists, seek medical attention. In case of ingestion or swallowing drink 2 glasses of clean water and seek medical attention. Keep out of reach of children.

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 Corp., is not under any circumstances liable to connection with the use of information. As International Chem-Crete 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 if our information is valid in a particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design application for 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. AM180418

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