CHEM-CRETE® CCC-D200

Two-Component, Cold Applied, Self Leveling, Elastomeric Joint Sealant

PRODUCT DESCRIPTION

CHEM-CRETE CCC-D200 Joint Sealant is a cold-applied two-component elastomeric sealant designed as an efficient cost-effective sealer for joints in concrete paved areas. CHEM-CRETE CCC-D200 is resistant to fuel, oil, and hydraulic fluid spillage and will not harden in cold weather nor become excessively soft or track in hot conditions. CHEM-CRETE CCC-D200 provides a high level of sealing efficiency over an extended period, reducing maintenance costs and providing a 20 years life expectancy.

FIELDS OF APPLICATION

CHEM-CRETE CCC-D200 Joint Sealer is used in sealing horizontal concrete movement joints in concrete paving associated with car parks, motor ways, airfields, bridge-decks, warehouses and industrial flooring. CHEM-CRETE CCC-D200 is particularly suitable for areas with fuel and oil spillages.

PRODUCT FEATURES

- ☐ Cold applied - no heating equipment required.
- ☐ Fuel, oil and hydraulic fluid resistant.
- ☐ Self-leveling.
- ☐ High movement accommodation.
- ☐ Tough, rubbery seal, unaffected by climactic variations.
- ☐ No primer needed.
- ☐ Suitable for use in hot and cold climates.

PACKAGING

CHEM-CRETE CCC-D200 is a two components product. Both components are packaged together in one 5 Gallon (18.92 Liters) steel pail as a convenient kit to simplify mixing on the site. When the components are mixed, they are proportioned by weight.

CHEM-CRETE CCC-D200 is sold in 4 Gallon (15.14 Liters) Kit and is available in black color only.

TECHNICAL DATA

Property	Test Method	Value
Application Temperature Range, °F (°C)	Lab observation	60 – 90 (15 – 32)
Flash Point, Pensky Martens Closed Cup, Min., °F (°C)	ASTM D93-79	>100 (37.8)
Solids Content by Weight, Min., %	ASTM D2823	87.0
Density, Lb/Gal (L/Kg)	ASTM D71	8.95 (1.07)
Flow of Cured Film at 200°F (93°C)	ASTM D1851	None
Moisture Vapor Transmission, Perm Inch	ASTM E96, Method E	0.0048
Service Temperature Range, °F (°C)	Lab Observation	-80 to 200 (-62 to 93)
Resistance to Abrasion by Sandblast	FED-TT-C-520	Excellent
Resistance to Oils, Greases, Solvents	FED-SS-S-00200D	Good
Cracking or disbonding of 1/16 inch (51mm) Cured Film on Steel at 140° to - 60°F (60 to -51 °C)	FED-TT-C-520	None

Properties after 1 Month cure @ 74°F (23°C)		
Tensile Strength, PSI (kPa)	ASTM-D412	216 (1489)
Elongation, %	ASTM-D412	147
Bond Strength to steel, PSI (kPa)	ASTM-D412	153 (1055)
Tensile Strength, PSI (kPa)	ASTM-C273	78 (538)
Compression Strength, PSI (kPa)	ASTM-C273	60 (414)

Min.: Minimum

APPLICATION DATA

Limitations: CHME-CRETE CCC-D200 should not be used where it will be exposed to high concentrations of oil or organic solvents.
At atmospheric temperature under 60°F, the two components will be too thick to mix easily. Above 60°F., they pour readily and mix to pouring consistency for cold application.

Composition: CHEM-CRETE CCC-D200 Joint Sealer is formed by chemical reaction after the two components are mixed. Component 1 is the base and it consists of elastomer-forming polymers modified with an asphalt plasticizer. Select fillers and stabilizers are added to maximize strength and prolong shelf life. Component 2 consists of the curing agent and polymer extenders. The formulation is accomplished in such a manner as to preclude any settling or stratification of the component parts. Since the sealant cures by chemical reaction rather than by evaporation, there is practically no shrinkage on curing.

Standards: CHEM-CRETE CCC-D200 Joint Sealer meets or exceeds federal standard for Sealing Compound, Cold-Application Mastic, Multiple Component Type, for joints in concrete and ASTM-D-1850 entitled Concrete Joint Sealer, Cold-Application Type, Single or Multiple Component. Military SS-A-1596B Federal SS-S-00195A.

Surface Preparation: Concrete and masonry must be clean, dry and free of loose matter. Metal should be sand-blasted to gray when feasible. Horizontal joints should have a packing of a compressible material in the bottom to prevent material loss and adhesion on the bottom of the joints. Sloping joints should be closed so material will not flow out. New concrete should be allowed to cure for at least 28 days prior to the application of CHEM-CRETE CCC-D200.

Mixing: Component 2 is poured into Component 1. Atmospheric temperature must be 60°F (15°C) or above to permit pouring and proper mixing. An electric mixer such as a drill motor (600 rpm minimum generating vigorous vortex), with agitator having a 5 inch (12 cm) or larger blade, is suggested for thorough mixing in 3-5 minutes.

Application: Pour into joints while the ambient temperature of the concrete slab is between 60°F (15°C) and 90°F (32°C). For best results, use a pour-can with spout shaped to fit joint. This fills the joint from bottom up and produces a better joint with

fewer air bubbles trapped within the sealant. International Chem-Crete recommends that a joint depth/width ratio of 2:1 be used.

Material Requirements Calculation: A joint to be filled has the following dimensions: 1 inch wide, 2 inches deep and is 947 feet in length, 947 feet is equal to 11346 inches. Volume is calculated by multiplying width (1") x depth (2") x length (11364") = 22728 cubic inches. 22,728 cubic inches ÷ 231 cubic inches per gallon= 99 gallon. A U.S. gallon contains 231 cubic inches. Also, a U.S. Gallon Contains 3.785 Liters.

Pot Life: Pot Life for CHEM-CRETE CCC-D200 at 75°F (24°C) is 2 hours. Port life at 90°F (32°C) is 1 hour. Pour horizontal joints as soon as mixed. Sloping joints can be poured in 15 minutes after mixing when material begins to increase in viscosity.

Cure time: CHEM-CRETE CCC-D200 cures track free at 75°F (24°C) is 5 hours. 90°F (32°C) is 3 hours. Complete elastomeric set requires 24 hours at 75°F (24°C).

Maintenance: CHEM-CRETE CCC-D200 Joint Sealer is a tough, abrasion-resistant product and no maintenance should be needed. However, if mechanical damage should occur, it can be easily repaired by maintenance personnel. Edges of the old sealant should be roughed up to expose a fresh surface to which fresh elastomeric sealant can adhere.

CLEANING

Tools should be cleaned before sealant sets, within one hour after application using kerosene. Cleaning after one hour may require aromatic spirits, CHEM-CRETE BLENDED SOLVENT cleaner.

STORAGE

Like all combustible materials, the components of CHEM-CRETE CCC-D200 should be stored in cool and dry place between 65°F (18°C) to 75°F (24°C).

SAFETY PRECAUTIONS

FOR INDUSTRIAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN.

The components of this sealant are combustible. Component 2 contains a toxic ingredient which is sufficiently diluted after mixing with Component 1 to permit use of the final mixtures with reasonable precautions. During application, it should be used with adequate ventilation. Prolonged and repeated breathing of concentrated vapor is harmful and should be avoided. Prolonged contact with skin is harmful and should be avoided. The components and mixture are harmful or fatal if swallowed. In that event, do NOT induce vomiting - call a physician immediately.

While handling Component 2 during mixing, the following equipment is recommended: organic vapor cartridge, respirator, protective goggles, rubber apron and gloves. The vapor should not be inhaled. It may cause allergic respiratory reaction; may cause skin or eye irritation. If material is splashed on skin, wash with large quantities of soap and water. If splashed in eyes - flush with water for 15 minutes and call physician. This product is for industrial use only.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for technical assistance.

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. can not however under any circumstances make any obligation or liability in to connection with the use of this 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. AM29319

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