



CRETE-LEASE[®] 880-VOC Release Agent Specification Sheet

Environmental Report Card

- ✓ VOC compliant
- ✓ Non-carcinogenic
- ✓ Solventless

1. PRODUCT NAME

Crete-Lease 880-VOC Release Agent

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Basic Use: Crete-Lease 880-VOC permits easy stain-free removal of forms, formliners, pallets, etc. from hardened concrete. It:

- Cuts form clean-up time up to 70% when properly applied
- Can reduce bugholes on concrete surfaces
- Doesn't interfere with adhesion of caulk, architectural coatings, paint, sealers and curing compounds on cured concrete surfaces when properly applied
- Can be applied in sub-freezing or very hot temperatures
- Reduces incidences of skin rashes
- Promotes longer form life by acting as a water repellent from inside the wood
- Produces high visual impact (CCS 1) concrete surfaces
- Does not stain or stick from steam curing

Limitations: a. Not recommended for forms or formliners made from expanded polystyrene, SBR, or natural rubber or latexes made of these. Use Crete-Lease 20-VOC on any form or formliner.

b. Although subfreezing temperatures have no effect on the releasing action of Crete-Lease 880-VOC, temperatures below freezing promote thicker film thicknesses which causes more bugholes.

Ground Shipping in the USA: Containers holding 55 gallons or 5 gallons or less (regardless of quantity) are not federally regulated and shipping product in

TABLE OF PROPERTIES

Color
Opacity
Freeze Damage
Flash Point
Viscosity (centipoises)
Solids
Pounds per gallon
VOC

Containers

| Aerosol | All Others |
|---------|------------------|
| Straw | Straw |
| Clear | Clear |
| None | None |
| NA | 175°F (80°C) |
| NA | 13 @ 68°F (20°C) |
| None | None |
| 7.37 | 7.37 |
| Exempt | 240 g/L |

Composition: A proprietary blend of neutralized vegetable oils in mineral oil. Contains no waxes, no silicones...no carcinogens.

the Cresset package does not require following hazardous shipping requirements. Aerosols or a container holding 275 gallons or a bulk shipment requires federally mandated procedures on the driver, container and shipping papers. See Cresset brochure "Ground Shipping" for details.

Applicable Standards: Exceeds California's SCAQMD rule 1113-90 (250g/l). "Cresset Concrete Standards", a photographic appearance guide. Corps of Engineers, "Civil Works Construction Guide Specifications," CW-03101, Section 5.3 and Section 8. Corps of Engineers, "Guide Specification Military Construction," CECS-03300, Section 10.8.

4. TECHNICAL DATA

Please see Tables.

5. APPLICATION

Preparatory Work: Form surfaces must be extremely clean to produce architectural surfaces CCS 1, CCS 2 and CCS 3. Even very small amounts of buildup, dust or debris show on the final surface. Use only non-porous form and formliner surfaces to achieve CCS 1, CCS 2 and CCS 3 concrete surfaces.

Apply Crete-Lease 880-VOC about 20 minutes before placing concrete, or up

to 14 days before if treated surfaces are protected from dust and debris.

Dilution: Use as is...any dilution with fuel oil, diesel fuels, or mineral spirits promotes an increase in stripping difficulties, concrete build-up, bugholes, soft spots, staining and violates California rule 1113-90.

CCS 1 Application Guidelines: Non-porous form surfaces are critical to achieve CCS 1.

a. Wipe on an ultra thin film of Crete-Lease 880-VOC Release Agent with a clean, soft flannel cloth that is moist, not wet, with release agent. Wipe out "brush strokes". b. Spray textured form or formliners then "wipe off" with a clean, soft flannel cloth that is moist, not wet, with Crete-Lease 880-VOC Release Agent.

Properly executed, either procedure produces an ultra thin film of Crete-Lease 880-VOC Release Agent less than 0.0005 inch...about 1/3 as thick as a human hair. This ultra thin film helps produce bughole-free concrete surfaces without stains and without problems of adhesion of caulk or other coatings. Forms strip cleanly and easily.

CCS 2 Application Guidelines: Spray Crete-Lease 880-VOC in an ultra thin film from 0.0005 to 0.001 inch thick.

TABLE OF FORM AND FORMLINER COMPATIBILITY

| | |
|--------------|---|
| Plywood | All Grades, Pre-oiled, Overlaid (LDO, MDO, HDO) |
| Plastics | Fiberglass Reinforced, ABS, PVC |
| Coatings | Epoxy, Urethane |
| Elastomerics | Urethane, Silicone |
| Steel | |
| Aluminum | |
| Wood | |

Hold the spray tip 12 to 18 inches from the form. CCS 2 requires the use of non-porous forms and formliners. Only spray with flat spray tips...80015 or 8001. Adjust pressure to provide a flow rate through the spray tip of about 18 ounces per minute for the 80015 spray tip and 12 ounces per minute for the 8001 spray tip.

CCS 3 Application Guidelines: Spray apply Crete-Lease 880-VOC in a thin film from 0.001 to 0.0025 inch thick. Use non-porous form surfaces to produce CCS 3. Use flat spray tips 80015 or 8001. Flow rates through the spray tip should be 18 ounces per minute for the 80015 spray tip and about 12 ounces per minute for the 8001 spray tip.

CCS 4 Application Guidelines: Spray Crete-Lease in a film from 0.0025 to 0.0045 inch thick. Use any form or formliner, including any grade of plywood. Flat spray tip 80015 or 8001 are recommended.

CCS 5 Application Guidelines: Spray apply Crete-Lease Release Agent from 0.0045 to 0.0065 inch thick. Use any type of form.

CCS 6 Application Guidelines: Apply Crete-Lease Release Agent in the fastest, most convenient way.

Notes:

a. Producing CCS 1, CCS 2, or CCS 3 concrete surfaces requires the use of non-porous form facings (e.g., elastomeric, steel, plastic, high density

SPRAY COVERAGE RATES TO OBTAIN HIGH VISUAL IMPACT CONCRETE

Optimum Coverage Rate For
CCS 2 **CCS 3**

| Flat Spray Tip | Pressure | CCS 2 | CCS 3 |
|------------------------|-----------|-----------------|-----------------|
| 80015 tip | 30-40 psi | 60 sq ft/10 sec | 30 sq ft/10 sec |
| 8001 tip | 30-40 psi | 40 sq ft/10 sec | 20 sq ft/10 sec |
| 800067 fine tip | 50-60 psi | 35 sq ft/10 sec | 15 sq ft/10 sec |
| 800050 fine tip | 50-60 psi | 25 sq ft/10 sec | 12 sq ft/10 sec |

Typical Wet Film Thickness 0.0005 to 0.001 inch 0.0001 to 0.0025 inch

- Notes:**
1. The coverage rates are for smooth non-porous forms.
 2. Distance between form and spray tip is constant; typically between 12 and 18 inches.

COVERAGE WITH CRETE-LEASE 880-VOC

| Form Surface | (sq ft/gal) |
|-------------------|-------------|
| Hard & Smooth | 1,600 |
| Pre-oiled Plywood | 1,100 |
| Untreated Plywood | 800 |

overlaid plywood, fiberglass, ABS, PVC and urethane or epoxy coatings on wood).

b. An ultra thin film (0.0005 inch) of Crete-Lease 880-VOC Release Agent releases easier than thicker films.

c. In producing CCS 1 concrete, the surface of the form or formliner must be free from defects. Joints must be water tight.

d. Protect form and formliner surfaces treated with release agent, from precipitation, dust and debris when producing CCS 1, CCS 2 and CCS 3.

6. AVAILABILITY AND COST

Availability: Crete-Lease 880-VOC is available in 1 and 5 gallon containers; orange and white striped 55 gallon drums and 275 gallon MegaPaks. Contact Cresset Chemical Company for nearest distributor.

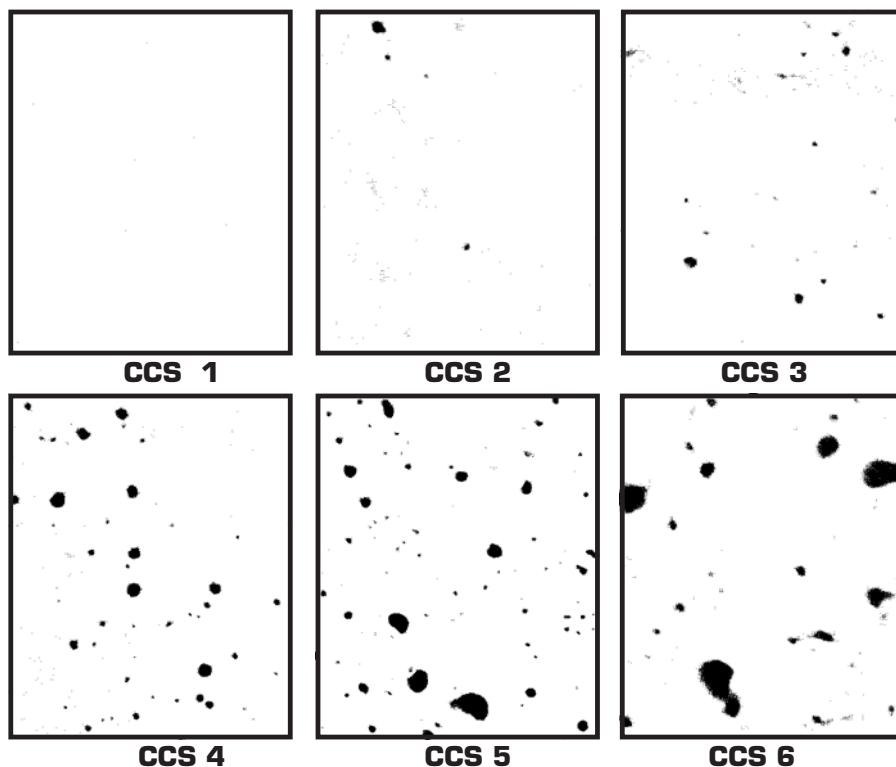
Cost: The cost on hard, smooth surfaces is about \$0.008 per square foot (January 2007).

7. LIMITED WARRANTY

Cresset Chemical Company warrants the product against defects in materials for a period of 1 year from purchase. If Cresset receives notice of such defects during the warranty period, Cresset at its option will either replace the product or refund the purchase price. THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED. CRESSET SPECIFICALLY DISCLAIMS THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES PROVIDED HEREIN ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL CRESSET CHEMICAL COMPANY BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF PROFIT) WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY.

8. MAINTENANCE

Cover, or store drums on side to prevent water (i.e. moisture, condensation, rain) from entering the drum.



These simulated Figures are parts of larger photographs which appear in "Cresset Concrete Standards". Write or call for your free brochure. Scale 1:1.