

**SPECIFICATION SHEET**  
**CRETE-LEASE 727 RELEASE AGENT**

Crete-Lease 727 is a mineral-based release agent that has been used for more than 25 years. It applies at low and high ambient temperatures and it exceeds all state and federal VOC regulations. Updated March 2005.

**Environmental Report Card**

VOC compliant.....Yes  
Non-carcinogenic.....Yes  
Biodegradable.....Yes  
Solventless.....Yes

**1. PRODUCT**

**Crete-Lease 727 Release Agent**

**2. MANUFACTURER**

**Cresset Chemical Company, Inc.**  
One Cresset Center, Box 367  
Weston, OH 43569

**3. PRODUCT DESCRIPTION**

**Basic Use:** Crete-Lease 727 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
- Reduces 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
- Is excellent on aluminum forms
- Can be applied in sub-freezing or very hot temperatures
- Reduces incidences of skin rashes to an absolute minimum
- Promotes longer life of plywood forms by acting as a water repellent from inside the wood
- Produces both high visual impact (CCS 2) and typical concrete surfaces (CCS 3, CCS 4, CCS 5)

Even when applying 10 times more than required:

- No staining when cured at ambient temperatures
- Concrete surfaces are not "killed"
- Does not cause efflorescence
- The visual impact worsens

**Limitations:** A) Not recommended for forms or form liners 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 727, temperatures below freezing promote film thicknesses which may cause 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 the Cresset package does not require following hazardous shipping requirements. 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:** Crete-Lease 727 Release Agent meets U.S. Army, Corps of Engineers CE 204, Section 7.10 and CE 1401.01, Section 17.4.

**4. TECHNICAL DATA**

Please see Tables.

**TABLE OF PROPERTIES**

		<u><b>Metric</b></u>
<b>Color</b>	Straw	Straw
<b>Opacity</b>	Clear	Clear
<b>Freeze Temperature</b>	-15° F	-25° C
<b>Freeze Damage</b>	None	None
<b>Flash Point</b>	175° F	80° C
<b>Viscosity (centipoises)</b>	13 @ 68° F	13 @ 20° C
<b>Solids</b>	None	None
<b>Density</b>	7.37 lbs/gal	882 g/L
<b>VOC (Volatile Organic Compounds)</b>	245 g/L	245 g/L
<b>VOC (Volatile Organic Compounds)</b>	1.8 lbs/gal	---

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

**TABLE OF FORM AND FORMLINER COMPATIBILITY**

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

## COVERAGE WITH CRETE-LEASE 727

<u>Form Surface</u>	<u>(sq ft/gal)</u>	<u>(m2)</u>
Hard & Smooth	1,500	40
Pre-oiled Plywood	1,000	25
Untreated Plywood	700	17

### **5. APPLICATION**

**Preparatory Work:** Form surfaces should be clean, dry and free from contaminants. Apply Crete-Lease just minutes before concrete is placed or up to 14 days before if treated surface is protected.

**Methods:** Your choice of application methods will determine the final appearance of the concrete. Use Release Method when a form release is the primary concern; use a Visual Guide Specification for concrete where both visual impact and form reuse are primary concerns.

**Release Method:** Apply with any type applicator or technique. Use a sprayer, roller, brush or mop.

Too much release agent will cause bugholes and "wormtracks" (as seen in CCS 6), and an increased difficulty in stripping.

Dilution with fuel oil, diesel fuels, or mineral spirits will promote an increase in stripping difficulties, concrete buildup, bugholes, soft spots, and staining.

**Visual Guide Specifications:** Cresset Concrete Standard 3 (CCS 3) is typical of Crete-Lease 727. CCS 2 is attainable when coverage rates are carefully followed. See Spray Coverage Rates Chart for specification details.

#### **Visual Guide Specification Notes:**

1. With Crete-Lease 727, the thinner the film the better the appearance, plus the forms strip easier.
2. Form surfaces used in producing CCS 1 and CCS 2 must be as clean as the hood on a showroom car before the release agent is applied. Protect treated surfaces from precipitation, dust and debris.
3. Non-porous form surfaces are required to uniformly produce CCS 1, CCS 2 and CCS 3. Examples include HDO plywood, elastomerics, all plastics, metals, and some coatings.

4. When producing CCS 4, CCS 5 or CCS 6 concrete surfaces, you may use pre-oiled or untreated plywood, or LDO or MDO overlaid plywood.

5. Sprayers designed for applying sealers and curing compounds typically apply 10 times the needed Crete-Lease. They are not recommended for producing CCS 1, CCS 2 or CCS 3.

6. Produce CCS 2 with Crete-Lease 727, 880, 880-VOC and 20-VOC. Use Crete-Lease 727 when form reuse is more important than visual impact. When superplasticizers are used in the concrete mixture or visual impact is especially important use Crete-Lease 880. Use Crete-Lease 20-VOC or Crete-Lease 880-VOC to meet air quality (VOC) hazard and/or pollution regulations.

7. Thin spray applications of release agent at temperatures below 45° F are produced by increasing spray pressure about 10 psi.

**Storage:** Factory sealed containers will keep up to 2 years at temperatures from -20°F to 140°F (-30°C to 60°C). Crete-Lease 727 is a class 3A liquid for purposes of meeting OSHA storage requirements (Section 1910.106).

Store drums horizontally or in a position to prevent standing water from collecting over the bungs.

**Precautions:** Keep out of reach of children. Avoid prolonged contact with the skin. Use with adequate ventilation. See Material Safety Data Sheet for additional information.

#### **SPRAY COVERAGE RATES TO OBTAIN HIGH VISUAL IMPACT CONCRETE**

<b><u>Flat Spray Tip</u></b>	<b><u>Pressure</u></b>	<b>Optimum Coverage For CCS 2</b>	<b>Optimum Coverage For CCS 3</b>
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
Wet Film Thickness		0.0005 to 0.001 in	0.001 to 0.0025 in

**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.

**SPRAY COVERAGE RATES TO OBTAIN HIGH VISUAL IMPACT CONCRETE**  
(nominal conversion to metric)

<u>Flat Spray Tip</u>	<u>Pressure</u>	<u>Optimum Coverage For CCS 2</u>	<u>Optimum Coverage For CCS 3</u>
80015 tip	205-275 kPa	6 m <sup>2</sup> /10 sec	2.5 m <sup>2</sup> /10 sec
8001 tip	205-275 kPa	4 m <sup>2</sup> /10 sec	1.5 m <sup>2</sup> /10 sec
800067 fine tip	345-410 kPa	3 m <sup>2</sup> /10 sec	1 m <sup>2</sup> /10 sec
800050 fine tip	345-410 kPa	2 m <sup>2</sup> /10 sec	1 m <sup>2</sup> /10 sec
Wet Film Thickness		0.012 to 0.025 mm	0.025 to 0.063 mm

**Notes:**

1. The coverage rates are for smooth non-porous forms.
2. Distance between form and spray tip is constant; typically between 300 mm and 455 mm.

**6. AVAILABILITY AND COST**

**Availability:** Crete-Lease 727 is available in 1 and 5 gallon containers; orange and white striped 55 gallon drums and 275 gallon MegaPaks.

**Cost:** The cost on hard, smooth surfaces is about \$0.004 per square foot (January 2001).

**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**

Not required.