

## Technical Data Sheet

Revision #1 - 09/12/2011  
Supersedes all previous versions

### Single Component

# CARC

Chemical Agent Resistant Coating  
For the Spot Shot

**MIL-DTL-53039D Type-VIII**  
Aliphatic Polyurethane Coating Chemical  
Agent Resistant  
Polymeric Flattened  
Single Component  
Low VOC

## FED-STD-595C #37030 BLACK



**Spot Shot™**  
(Actual Size)

### PRODUCT INFORMATION

Color Spec:	FED-STD-595C #37030
Color Name:	BLACK
Gloss (Max):	1.0/3.5 @ 60°/ 85 °
Dry Film Thickness:	1.8 - 2.2mils
Viscosity:	55-80 KU
Weight per Gallon:	10.18 LBS/Gallon Max.
Volume Solids:	38.87 %
Weight Solids:	45.92 %
VOC:	0.8 LBS/Gallon Max.

### DESCRIPTION

- MIL-DTL-53039D Type-IV packaged in a Type-VIII portable format.
- Single Component Chemical Agent Resistant Coating
- Military Approved and Batch Certified

### INTENDED USE

With proper application, this coating enhances visual and infrared camouflage, provides resistance to chemical and biological agent contamination, and meets decontamination requirements as outlined in MIL-DTL-53039D.

### GENERAL INFORMATION

<b>*NOTICE*</b>	This CARC coating is humidity and moisture reactive. *Do not open the container until ready to use.
<b>Methods:</b>	MILSPRAY Spot Shot™ application.
<b>Mix Ratio:</b>	None. Specially formulated for direct application without needing to mix multiple components together.
<b>Reduction:</b>	None. Specially formulated for the MILSPRAY Spot Shot™.
<b>Special Reduction:</b>	None.
<b>Cleaner:</b>	None.
<b>Usage:</b>	This product is manufactured, distributed, and intended for Military and Industrial use ONLY.

**Please see reverse for specific Application information:**

- Application Conditions
- Cure/Dry Times
- Shelf Life
- Surface Preparation
- Storage
- Safety Information

# CSS-37030-1K

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## SURFACE PREPARATION

<b>Mil-Specs:</b>	Consult MIL-DTL-53072C for complete application guidance.
<b>Surface:</b>	All surfaces to be coated should be clean of all grease, dirt, oil, rust and contaminants.
<b>Primer:</b>	MIL-PRF-23377, MIL-DTL-53022, MIL-DTL-53030, or MIL-PRF-85582D
<b>Masking:</b>	Prior to application, properly protect and mask all adjacent surface areas that are NOT to be coated.

## APPLICATION CONDITIONS

<b>*NOTICE*</b>	Air-dry time doubles for every 10° drop in temperature. Low humidity or high film thickness also increases cure time.
<b>Temperature:</b>	Recommended temperature range of 60°F - 90°F
<b>Humidity:</b>	Recommended relative humidity range of 10% - 80%

## CURE TIMES

<b>Pot Life:</b>	4-6 hours after initial opening. *High temperature and high humidity levels will decrease the potlife.
<b>Dry Time:</b>	30-Min. (Dry to touch), 3-Hours (Dry Hard), 4-Hours (Dry-through) at 77°F and 50% Relative Humidity.
<b>Recoat:</b>	Minimum: Flash dry between coats. No maximum time for clean surfaces. Scuff sand and clean if needed.

## STORAGE

<b>*NOTICE*</b>	Handle with care. This product must be stored in accordance with local, state, and national regulations.
<b>Shelf Life:</b>	This product must be used by the labeled expiration date to be in compliance with Military specifications.
<b>Suggested:</b>	Store at room temperature in dry and adequately ventilated area. Keep all containers tightly sealed.

## SAFETY

<b>P.P.E., Handling, Spills, and Disposal:</b>	Proper Personal Protective Equipment (PPE) should be worn at all times when working with this coating. Consult the Material Safety Data Sheets (MSDS) for guidance.
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**CAUTION:** The Surgeon General requires airline respirators to be used unless air sampling shows exposure to be below standards. Then, either chemical cartridge respirators or airline respirators are required. Avoid contact with skin and eyes. Use with adequate ventilation. For other safety recommendations, refer to the Material Safety Data Sheet (MSDS). Keep containers closed.

**NOTE: THE INFORMATION PROVIDED WITHIN IS FOR REFERENCE ONLY.** Each application is specific in nature and the consumer must be aware of environmental and application factors which may adversely affect the integrity of the coating. Please refer to MIL-DTL-53072C for more information.

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## Aliphatic Polyurethane Coating

## Chemical Agent Resistant

## Polymeric Flattened

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### DIRECTIONS FOR USE

**\*NOTICE\*** \* Do not remove the spray unit from packaging until ready to use.  
\*\* Always replace the red spray tip prior to shaking and swirling.  
\*\*\* Always wear adequate Personal Protective Equipment (PPE) prior to handling and spraying this coating.  
\*\*\*\* **NEVER USE MECHANICAL AGITATION METHODS.**

**Mixing:**

1. Properly mask all areas not to be coated.
2. Prepare the touch-up surfaces in accordance with MIL-DTL-53039C/D and MIL-DTL-53072C.
3. Wear adequate personal protective equipment (PPE) before proceeding.
4. Remove the two spray heads from the bottle packaging and set aside – do not remove outer packaging.
5. Manually shake the unit vigorously in an up and down motion for 20-seconds.
6. Swirl the unit vigorously in a circular motion for 10-seconds.
7. Manually shake the unit vigorously in an up and down motion for 20-seconds.
8. Swirl the unit vigorously in a circular motion for 10-seconds.

**Opening:**

1. Remove the unit from the clear outer cellophane packaging by tearing along the perforations.
2. Remove the aluminum cap from the bottle and retain for disposal.
3. Affix one of the accompanying spray head assemblies – retain the additional spray-head for later use.
4. Adjust the trigger-lock to the “unlock” position (depressed inward).
5. Remove the red nozzle cap from the spray tip and retain for later use.

**Usage:**

1. Prime the spray pump – spray the unit with several full pumps away from the surface to be coated (into an appropriate area, rag, or paper towel).
2. TEST SPRAY: Determine a proper spray distance for each application by first test spraying a test panel.
3. Lightly coat the test area using a unidirectional spray pattern:
- 3a. Squeezing the trigger produces a short burst of spray mist;
- 3b. For most small repair applications, an ideal spray distance would be 3-inches ( $\pm$  ½-inch).
4. After each application (12-square inches or smaller), or when paint can be seen collecting on the spray tip, wipe the tip clean with the enclosed gauze wipe or other absorbent cloth.
5. Swirl the unit in a circular motion frequently between applications.
6. After use, blot the tip with the enclosed gauze wipe or other absorbent cloth and replace the red tip cover.
7. Pot life after initial spray is 4-hours. The material within the unit must be used or discarded within 4-hours after the initial spray.
8. It is necessary to squeeze the trigger while traversing the repair area to create a strip --SEE DIAGRAM #1--
9. Spray several short strips in succession, overlapping about 50%. --SEE DIAGRAM #2--
10. After each application (12-square inches or smaller), or when paint can be seen collecting on the spray tip, wipe the tip clean with the enclosed gauze wipe or other absorbent cloth.
11. Swirl the container in a circular motion frequently between applications.  
For larger areas, repeat steps 14, 15, and 16, overlapping the first spray pattern slightly. --SEE DIAGRAM #3--
12. Wipe the spray tip frequently and replace the red nozzle cap after use to help maintain pot-life.
13. Use the complete contents of this container after the initial spray within four (4) hours or discard the remaining material in accordance with local regulations.
14. The empty container is recyclable aluminum – consult local regulatory guidelines for recyclables.
15. The spray tip is constructed of recyclable plastics – consult local regulatory guidelines for recyclables.

**IF THE SPRAY-PUMP BECOMES CLOGGED, JUST REPLACE IT WITH THE ADDITIONAL SPRAY-HEAD THAT COMES WITH THE UNIT**

**-- SEE THE REVERSE SIDE OF THIS PAGE FOR SPRAY PATTERN DIAGRAM --**

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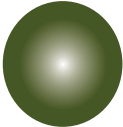
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### DIRECTIONS FOR USE

#### DIAGRAM #1

Apply the coating using a steady motion in one direction

Single spray



NO Traversing

Single spray

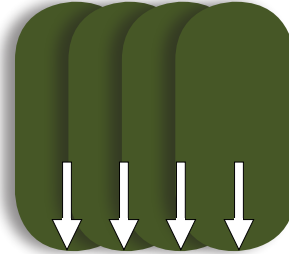


With downward  
Traversing

#### DIAGRAM #2

Continue to apply the coating with several unidirectional sprays, traversing the panel uniformly, and overlapping each section by 50%.

MULTIPLE SPRAYS With 50% OVERLAP

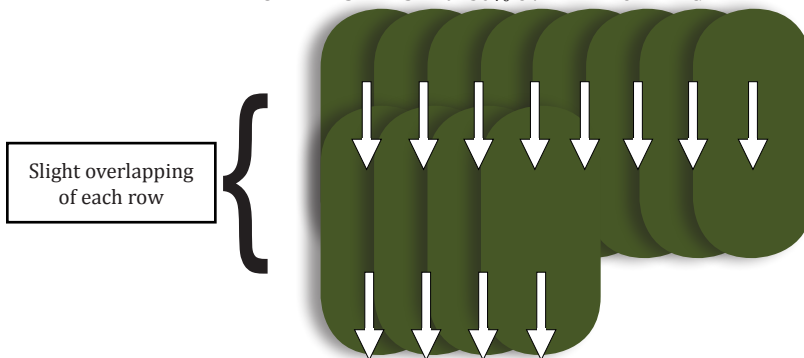


Slight overlapping of each row

#### DIAGRAM #3

Apply the coating in rows, overlapping each row slightly

MULTIPLE SPRAYS With 50% OVERLAP FOR LARGER REPAIR AREAS



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