**TrueKote CS-100**

**Technical Data**

**Revision date: 11/15**

TrueKote CS-100 can be used as a protective coating for rope and closed cell flexible foam. It provides a slow 45-minute working life and may also be used as a casting product. TrueKote CS-100 protects rope rigging against damage from cuts and abrasion. Over flexible foam it provides a durable flexible surface, which resists cuts and punctures. TrueKote CS-100 is also used for encapsulating or potting fittings and eyes used in marine rope riggings. TrueKote CS-100 can be colored with SL or RV pigment dispersions.

### Mix Ratio

<table>
<thead>
<tr>
<th>By weight</th>
<th>100 parts A/ 16.12 part B</th>
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</thead>
<tbody>
<tr>
<td>By volume</td>
<td>100 parts A/ 15.20 parts B</td>
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</table>

### Working Properties

- **Viscosity @ 72°F (A Side)**: 12500 CPS
- **Viscosity @ 72°F (B Side)**: 200 CPS
- **Viscosity @ 72°F (Mixed)**: 7500 CPS
- **Color Mixed**: Clear
- **Working Life**: 300 gram Mass @ 72°F - 50-70 minutes
- **Tack Free @ 72°F**: 6 hours
- **Ultimate Cure @ 72°F**: 7 days
- **Recoat**: 96 hours maximum
- **Specific Gravity: (Part A)**: 1.03
- **Specific Gravity: (Part B)**: 1.06
- **Specific Gravity: (Mixed)**: 1.03
- **Weight/Gallon Part A**: 8.59 lbs.
- **Weight/Gallon Part B**: 8.88 lbs.
- **Weight/Gallon Mixed**: 8.63 lbs.
- **Cubic inch per lb. of product**: 0.037359 lb (16.96 grams)
- **Hardness @ 72°F**: ASTM 2240-85 - 75-85 Shore A
- **Tensile Strength**: ASTM D-412 die C - 2,850 psi
- **Elongation**: ASTM D-412 die C - 450%
- **Tear Strength**: ASTM D-412 die C - 385
- **Volatile Organic Compounds**: ASTM D-2369 - 0%
- **Fungus Resistance**: Non-nutrient
- **Water Absorption**: 0.01

### Clean Up

Dispose of all empty TrueKote CS-100 component containers in accordance with local, state and federal regulations. Empty component containers can be rendered non-hazardous by rinsing the containers with a small amount of mixed material and allowing the solvents to evaporate. The containers will then contain non-hazardous cured urethane.

### Storage and Shelf Life

TrueKote CS-100 is shipped from the factory in sealed containers. The containers should be stored in a cool, dry area that is protected from direct sunlight and moisture. Storage temperatures should not exceed 80°F. The shelf life of the factory sealed containers stored under these conditions is six months. Containers that have been opened should be resealed immediately after material has been removed in order to prevent solvent evaporation.

### Shipping Class

Class 55 Non-hazardous

### Applying Polymer Coatings To Rope (Natural or Synthetic)

The coatings designed for this application are inherently higher in viscosity to control the amount of coating that can be applied per application.

The higher viscosity and limited working time can make correct mixing of the Component A and B more difficult hence small batch sizes are recommended i.e. 0.90 gallon kits of polymer.

Mixing the Polyurethane coating:

1. Allow the component A & B container to stabilize overnight to 70-80°F. Colder temperatures will increase viscosities and make mixing difficult where warmer temperature will reduce working time with the mixed polymer.

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2. If the Component B is not "pre-pigmented" add the full tube of SL-pigment to the Component B container and mix well (Shake can)

3. Add all of the Component B to the larger component A container and mix with a "jiffy mixer" and electric drill at a medium speed. Do no whip excessive air into the mixture but mix fast enough to completely combine the Component A & B (about 1 to 2 minutes). PureCast 603 has a working time of 15 to 20 minutes, TrueKote CS-100 FR has a working time of 30 to 45 minutes at 72°F.

4. Apply the coating to the prepared rope section.

**Applying the mixed polymer to the Rope Section**

1. Inspect the Rope section that will be coated to insure that it is "dry" and free of dirt and debris. Rope that has been exposed to oil or grease should not be coated as the coating will not adhere or possible cure completely.

2. Attach the Rope section vertical to make the longest length possible.

3. Using a gloved hand, start at the top of the secured rope, bathing the rope with the mixed polymer gradually working down the line. Take care to work the polymer into the line with thumb and fore finger pressing on to the line.

4. Observe the line for unevenness in the coating and quickly smooth out these areas. Smooth out “drips” as they occur, toluene may be use with gloved hand to assist with contouring the “drips” as the polymer thickens up (30-45 minutes) after initial application.

5. Allow the rope to cure for about 2 hour at 72°F before applying additional layers of coating. Usually 2 coats of polymer will produce a cosmetically acceptable product.

**Curing the coated rope section**

1. Allow the coated rope section to hang vertical overnight, the rope can be handled the following. Lay the coated rope flat in an extended position to complete the cure cycle, 3 days at 72°F before coiling the rope. Rope sections that are coiled up before the curing cycle has completed may maintain an unwanted and irreversible "spring-coiled” shape. In addition the coated rope may "stick” to itself and make the line unusable.

**Recoating the coat rope sections**

Coated rope sections can be recoated without any special preparation if recoated within a 24 hr. period after the initial application of the coating and they have been kept dry.

(Coated rope sections older than 24 hrs.)

1. Lightly abrade the cured coating with abrasive foam sponges (3M Corporation) that are available from Home depot or Lowes stores.
2. Apply a light coating of Primer 460 SPX (Industrial Polymers Corp) and allow it to dry for 30 to 45 minutes at 72°F
3. Apply the coating as describe in "Applying the coating to prepared rope sections”

- Please call Industrial Polymers Corporation for further technical assistance if needed 713-943-8451