



## PDC® F-970 eccs®

### SOFT TOUCH POLYURETHANE BASED FOAM COATING FOR INDUSTRIAL USE ONLY

#### DESCRIPTION:

**F-970 Softtouch is a fast dry, high quality, high solids, water base, 100% polyurethane coating that produces a unique Softtouch finish on molded and fabricated polyurethane foams commonly used for the latest trend in ultra contemporary furniture and exotic display pieces.**

F-970 Softtouch can also be applied to EVA, PVC, EPS, x-link PE or minicell foams.

Other applications include life size costumes, movie props ect. F-970 Softtouch is also high solids, very low V.O.C. material, which makes it an Emission Control Coating System, eccs®.

Finally, a one component product you can rely on batch after batch. The durability, safety, ease of use, water clean up, as well as cosmetic appearance, you expect. The service and quality you deserve.

#### OTHER FEATURES INCLUDE:

Non-flammable, very safe and easy to use  
Pass methenamine pill burn test  
Water clean up

#### SPECIFICATIONS:

Solids (wt): approximately 60%	Tensile: (ASTM-D 412) 1,347 psi
Temperature use range: 0°F to 225°F	Elongation: (ASTM-D 412) 478%
Block resistant: 140°F @ 4 hours	Tear resistance; ASTM 1004 .13
Shelf life: 1+ year at 77°F unopened container	Freeze Thaw Stability: Good
Coverage: 80 sq. ft per gal at 20 mils	Finish: Satin
60 sq. ft per gal at 27.5 mils	
45 sq. ft per gal at 35 mils	

#### ALTERNATIVE PRODUCTS:

PDC® 3119 (2 component system)

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## Coating Process Top Coat / Base Coat [spray]

Use of F-977 or F-874 Muraculon Base Coat at 12 mils minimum is required before applying F-970 Top Coat. Make sure Base Coat is fully dry before applying Top Coat. F-970 Top Coat will not hide surface defects of Base Coat. If necessary sand smooth or repair defects of Base Coat, see hints below.

### **SURFACE PREPARATION:**

All surfaces to be coated must be free of any oils, dust, mold release or loose foam particles. Use of a quality lint roller on all surfaces just prior to coating is recommended.

### **USE ADEQUATE VENTILATION. GENTLY MIX BEFORE EACH USE.**

1. Apply 1<sup>st</sup> application using wet, overlapping spray coats, holding gun 10"-12" from surface, using a 4"-6" pattern. Allow to dry 45-60 minutes or until dry to the touch.

*For best results allow wet coating to air dry for 5 minutes then place coated item in 90-120F for 20-30 minutes to speed process.*

2. Apply 2<sup>nd</sup> application using wet, overlapping spray coats, holding gun 10"-12" from surface, using a 4"-6" pattern. Allow to dry 45-60 minutes or until dry to the touch.

*For best results allow wet coating to air dry for 5 minutes then place coated item in 90-120° F for 20-30 minutes to speed process.*

3. For best results wet sand [see wet sanding instructions] before spray applying 3<sup>rd</sup> coat or any additional coats repeating this process each time.

### **Pressure Pot recommendations:**

Binks® model 2100 gun or equivalent

Nozzle: 66SS

Cap: 66SS

Needle: 565

Material: 20 psi

Atomization: 10-25 psi

Dilution: not recommended

Clean up: immediately with water – if allowed to dry, use Acetone or M.E.K.

**Airless or air assisted airless equipment may be used.** Dilution is not suggested. Gently mix before spraying. Apply wet, overlapping coats, holding gun 12"-24" from surface, using 6"-12" pattern.

Tip size: .011-.026

Pressure: as needed

Dilution: not recommended

Clean up: immediately with water – if allowed to dry, use Acetone or M.E.K.

## Coating Process for Closed Cell Foams [Spray]

Molded PU, PVC, EVA, X-Link or Mini Cell Foams

### **SURFACE PREPARATION:**

All surfaces to be coated must be free of any oils, dust, mold release or loose foam particles. Use of a quality lint roller on all surfaces just prior to coating is recommended.

### **USE ADEQUATE VENTILATION. GENTLY MIX BEFORE EACH USE.**

1. Apply 1<sup>st</sup> application using wet, overlapping spray coats, holding gun 10"-12" from surface, using a 4"-6" pattern. Allow to dry 45-60 minutes or until dry to the touch.

*For best results allow wet coating to air dry for 5 minutes then place coated item in 90-120F for 20-30 minutes to speed process.*

2. Apply 2<sup>nd</sup> application using wet, overlapping spray coats, holding gun 10"-12" from surface, using a 4"-6" pattern. Allow to dry 45-60 minutes or until dry to the touch.

*For best results allow wet coating to air dry for 5 minutes then place coated item in 90-120F for 20-30 minutes to speed process.*

3. For best results wet sand [see wet sanding instructions] before spray applying 3<sup>rd</sup> coat or any additional coats repeating this process each time.

### **Coating Process for Closed Cell Foams [Roller]**

Molded PU, PVC, EVA, X-Link or Mini Cell Foams

#### **SURFACE PREPARATION:**

All surfaces to be coated must be free of any oils, dust, mold release or loose foam particles. Use of a quality lint roller on all surfaces just prior to coating is recommended.

#### **USE ADEQUATE VENTILATION. GENTLY MIX BEFORE EACH USE.**

1. Using a high quality ¼" nap roller, apply F-970 Softouch to foam surface making sure to apply liberally and only in one direction. Move roller very slowly [1" per second] across the surface using only light pressure. Allow to dry 45-60 minutes or until dry to the touch.

*For best results allow to air dry 5 minutes then place coated item in 90-120F for 20-30 minutes to set up and minimize surface absorption.*

2. Repeating step one apply second coat across [90 degrees] to the first coat to ensure a more uniform and even roller coat. Apply liberally, very slowly and in one direction only. Make sure to check for any runs or sags quickly after roller application. If found, use roller without adding any F-970 Softouch and re-apply to entire area slowly in an effort to redistribute excess F-970 Softouch. Allow to dry 45-60 minutes or until dry to the touch.

*For best results allow to air dry 5 minutes then place coated item in 90-120F for 20-30 minutes to set up and minimize surface absorption.*

3. For best results wet sand [see wet sanding instructions] before applying 3<sup>rd</sup> coat or any additional coats repeating this process each time.

**Wet Sanding-** wet sanding is best accomplished using a 3M Pro Grade Sanding Sponge. For best results start by using the COURSE grade and then MEDIUM grade sponge. Start by placing surface to be wet sanded vertically to prevent prolonged contact with puddled water. Apply water to sponge and using a circular motion remove high spots or imperfections [sags/runs] as needed. Make sure to rinse sponge frequently. **DO NOT** wet sand any area more than 60 seconds at one time. After sanding rinse away any debris and dab dry with lint free cloth. Allow to dry before repeating in same area.

**Water sensitivity-** F-970 Softouch is water based and like all water based coatings and paints can be sensitive to prolonged contact with water. If dried F-970 Softouch does come in contact with water, dab dry using a lint free cloth. It is normal for the color to change [lighter] after prolonged contact. After drying the color will return to its original shade. If products being coated require greater moisture resistance its recommended you contact Technical Service for our high performance cross linked finish.

#### **HINTS:**

A dry film thickness of 18-20 minimum is recommended for best results. Best results are achieved when liquid temperature of F-970 Softouch is between 70-75 F and air temperature is 70-75 F. Allow at least overnight dry before stacking or storing coated items unless you've accelerated drying with heat. After allowing to air dry for 30 minutes, a recommended heat for drying is 100°F-150°F with moving air. Always use proper ventilation and protection.