



TECHNICAL DATA SHEET #58

# PDC F-823 eccs®

## F-823/ F-823 'S' WB Urethane Coating for Foam FOR INDUSTRIAL USE ONLY

### DESCRIPTION:

F-823 is a flexible, high performance urethane, fast set water base coating. It's very low V.O.C.'s, non-flammable and high solids content make it an Emission Control Coating System, eccs®, that can be air dried or heat cured to meet production demands. F-823 can be dipped or brushed, is available in a wide variety of colors and exhibits excellent petroleum, chemical, UV, puncture and abrasion resistance. Typical applications include protecting and color coding foam for life size walking characters, EPS dock flotation and bouys, EVA foam used for protective padding, minicell foams used for protective packaging, PVC/ NBR foams for patient positioning, wheelchair padding and other applications.

F-823 bonds to most foams and plastics with minimal preparation. F-823 has the safety of water base with the performance of solvent base coatings. Use F-823 'S' for spray applications.

### SPECIFICATIONS:

Solids: (wt.) 33-35%	Finish: Semi gloss
Elongation: ASTM D 412 685%	Abrasion: excellent
Tensile: ASTM D 412 1700 psi	Permeability: Limited
Tear resistance: ASTM 1004 .24	Temperature use range: -0°F to 250°F
Weather ability: (ASTM G-53) Excellent 7-10 years	
Coverage: 150 sq.ft. per gallon at 5 mils	
Shelf life: 1+ years at 77°F unopened container	
Freeze Thaw Stability: Excellent	

Chemical resistance: In House Test Results [ASTM D-1308]

Ketone:poorAromatics: fair

Aliphatics:goodAlcohols: good

Acids:goodGlycol: fair

### ALTERNATIVE PRODUCTS:

F-879's', F-791's', F-779's'.

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## **SURFACE PREPARATIONS:**

### **MIX WELL BEFORE USE.**

All surfaces to be coated must be free of all oils, grease, dirt, wax, and mold release.

### **USE ADEQUATE VENTILATION.**

**SPRAYING - F-823 'S' ONLY:** Pressure pot/conventional sprayers may be used. Gently mix before spraying. Apply wet, overlapping coats, holding gun 6"-12" from surface, using a 4"-6" pattern. Allow to completely dry before applying additional coats to desired thickness.

### **RECOMMENDED EQUIPMENT AND SETTINGS:**

Gun: Binks® model 95

Nozzle: 63B

Cap: 63PB or 66SD-3 for heavier build up

Needle: 663A

Material: 25psi

Atomization: 15-25psi

Dilution: none required

Clean up: water, mild solvent if allowed to dry

**Airless equipment** may be used. Use as described above.

Tip sizes: .011 - .019

Pressure: as needed

Dilution: as needed

**DIPPING - F-823 ONLY:** Gently mix before each use. Do not introduce air bubbles. Insert item 1" every 5 seconds. Remove at same rate. Allow to completely dry before applying additional coats to desired thickness.

**BRUSH/ROLLER - F-823 ONLY:** Gently mix before each use. Apply wet overlapping coats using a foam brush, pad or roller. Allow to completely dry before applying additional coats to desired thickness.

### **HINTS:**

For storage or dip tank containers, use only poly or galvanized steel. A dry film thickness of 8-10 mils is recommended for best results. Allow overnight drying whenever possible. To speed drying, mild heat (95°F-110°F) and air flow may be used. Do not stack or store parts in contact with each other if not fully cured. Avoid excessive air movement, heat or humidity. Always use proper ventilation and protection.