



# HCF

eCCS<sup>®</sup> TECHNICAL DATA SHEET #10

## F-688/ F-688 's' Water Base Acrylic Coating FOR INDUSTRIAL USE ONLY

### DESCRIPTION:

HCF<sup>®</sup> is a flexible acrylic, 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<sup>®</sup>, that can be air dried or heat cured to meet production demands. HCF<sup>®</sup> can be dipped, brushed or sprayed, is available in a wide variety of colors and exhibits excellent petroleum, chemical, UV, corrosion and abrasion resistance. Typical applications include protecting and color coding transformers, coils, tools, fixtures and brackets, oil handling equipment, heavy machinery, and chain link fence components. HCF<sup>®</sup> bonds to metal, wood, concrete and plastics without primers. HCF<sup>®</sup> has the safety of water base with the performance of solvent base coatings. Use HCF<sup>®</sup> F-688 's' for spray applications.

### SPECIFICATIONS:

Solids: (wt.) 36%  
Finish: Semi gloss  
Tensile: (ASTM D-2370) 230psi  
Temperature use range: -0°F to 250°F.  
Coverage: 100 sq.ft. per gallon at 5 mils  
Shelf life: 1+ years at 77°F unopened container

Elongation: (ASTM D-2370-82) 230%  
Abrasion: (ASTM D-4060) 0.0005 inches/100 cycles  
Permeability: Limited  
Weather ability: (ASTM G-53) Excellent 7-10 years  
Dielectric (ASTM D-149) 1,100 v/mil

### Chemical resistance:

petroleum: Excellent  
acid, alkaline: Good  
alcohol, ketone, chlorinated solvent: Limited

### ALTERNATIVE PRODUCTS:

Use HCF<sup>®</sup> F-688's' for spray applying or contact Technical Service for alternatives.

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the applications of this information or the safety and suitability of our products, either alone or in combination with other product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products whether used alone or in combination with other products. Ever changing V.O.C. regulations in your area may require you to contact local authorities for proper use and/or disposal of this product. Should you need further assistance, please contact PLASTI DIP INTERNATIONAL technical service.

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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 loose rust. A sandblasted or rough surface improves adhesion. Use PLASTI DIP® PRIMER for best results on smooth metal surfaces.

#### **USE ADEQUATE VENTILATION.**

**SPRAYING - F-688 '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

**Industrial/commercial airless equipment** may be used. Use as described above.

Tip sizes: .011 - .019  
Pressure: as needed  
Dilution: as needed

**DIPPING- F-688 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-688 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 poly or galvanized steel. A dry film thickness of 6-8 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.