



# Technical Data

## PVDF(Polyvinylidene Difluoride)

### DESCRIPTION

PVDF (also known as PVF2) is a very high performance, Premium Architectural Fluoropolymer Coating containing 70% KYNAR 500. It is a thermoplastic polymeric barrier coating designed to protect aluminum substrates which are exposed to extremely harsh climatic conditions. The combination of pigmentation and formulation provides long lasting beauty, durability and excellent film flexibility. An 8-stage chromate pre-treatment ensures optimum coating performance under all environmental conditions.

PVDF is extremely resistant to chalking, Ultra-violet deterioration and is supremely color-fast. PVDF meets or exceeds AAMA 2605 98 specifications covering high performance organic coatings on architectural aluminum extrusions and panels. PVDF is available in any color, including Exotics, in a choice of matte, gloss and metallic finishes.

### APPLICATIONS

PVDF is particularly suited to protecting aluminum extrusions, panels and components where exposure to high levels of UV, salt spray, high humidity, acid rain, industrial pollutants and high wind levels can be expected. Its high matrix, thin film characteristics and excellent wrap features make it an ideal choice for applying to thin sections where edges and corners require coverage.



### PRODUCT SPECIFICATIONS

**Generic Type**

**Thermoplastic PVDF**

**Dry Film Thickness**

**Minimum 25 microns to 45 microns maximum**

**Adhesion**

**Excellent; Cross-hatch 1/16" wet and dry, no removal of the coating.**

<b>Hardness</b>	<b>HB Pencil minimum, no scratches</b>
<b>Direct Impact</b>	<b>Pass 20"/lb. falling weight - 1/10" distortion, coating does not detach; can withstand direct impact from a hammer without loss of adhesion</b>
<b>Abrasion Resistance</b>	<b>ASTM D-989 Abrasion Coefficient Value 200 min.</b>
<b>Flexibility</b>	<b>Passes 6mm Mandrel, coating is free of any cracks.</b>
<b>UV resistance</b>	<b>Xenon test - all colors tested for a minimum of 2000 hours. Constant ultra violet light only produces minimal color change.</b>
<b>Humidity resistance</b>	<b>100% RH at 100° F; no effect after 3000hours. Constant high humidity has no effect.</b>
<b>Salt Spray Resistance</b>	<b>Cross hatch under 5% Salt @ 100° F, 1/16" creep after 3000 hours, excellent corrosion resistance.</b>
<b>Alkali Resistance</b>	<b>Mortar pat Test-24 hours, no attack.</b>
<b>Acid Resistance</b>	<b>10% Muriatic rub test -15 minutes, no effect on coating. In Sulfur Dioxide, no color change, softening or blistering after 240 hrs.</b>
<b>Detergent Resistance</b>	<b>Immersion in 3% detergent @ 100° F, 72 hours, no effect.</b>
<b>Weathering</b>	<b>ASTMD-2244, Max 5 E(Hunter)Color Change, 5 yrs, 45° F South Florida.</b>
<b>Erosion</b>	<b>Max 10% loss- 5 yrs. 45° South Florida.</b>
<b>Chalk Resistance</b>	<b>Max Rating 8, 5yrs. 45° South Florida.</b>

### **OTHER PRODUCTS**

S3C can also apply a vast range of other coating materials including epoxies, polyethylene, nylon, PVC, PTFE (fluorocarbons), EVA, acrylic, Polyester architectural and industrial finishes.

For more information, please visit our website at <http://www.s3c.net> or e-mail us at [sales@s3c.net](mailto:sales@s3c.net). You can write or contact us too at:



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