



*Special Effects*

## Technical Data Sheet



### General Description

METALLIC PVF<sub>2</sub> Series™ with a pearlescent finish is a custom formulated fluorocarbon solar-reflective paint system for ultimate colour and gloss retention providing lasting outdoor performance.

### Standard

**ASTM A755(M)**

American Society for Testing and Materials

**JIS G3322**

Japanese Industrial Standard

### Recommended End Use

General exterior architectural application, especially for long-term, maintenance-free applications. Roofing & wall cladding in residential, industrial & commercial construction.

### Product Composition

METALLIC PVF<sub>2</sub> Series™ finishes consist of full strength 70% Kynar 500® or Hylar 5000®, PVDF fluoropolymer resin. The remaining 30% is a proprietary acrylic polymer. Only specially selected, lead-free colourfast ceramic/inorganic infrared solar reflective pigments with mica are used in METALLIC PVF<sub>2</sub> Series™ colours. Heat and sunlight resistance of these pigments has been field-proven for many years in real world at 45° South Florida exposures. This proprietary reliable combination of resins and pigments is available in a wide range of long-life finishes able to resist changes in colour and general appearance while preserving film integrity and coating properties.

### Specification

<b>PRETREATMENT</b>	Corrosion resistance proprietary conversion coating each side.
<b>PRIMER COAT</b>	Universal corrosion inhibitive primer Nominal thickness - 5 microns each side
<b>FINISH COAT</b>	Custom formulated system. Nominal thickness - 20 microns on the top or weather side. The finish coat is available in 6 standard specially selected colours. Other colours may be available on request. The finish coat can, if required be applied to both the sides to provide double sided colour coating.
<b>BACKING COAT</b>	Custom formulated backer - 5 microns Special backer suitable for foam application can also be provided.
<b>GLOSS</b>	Nominal 25% (60°)

### Specified Parameters

Test	Performance
<b>Specular Gloss (ASTM D523)</b>	20 - 30%
<b>Hardness (ASTM D3363)</b>	F minimum
<b>Bend Adhesion (ASTM D4145)</b>	4 T max
<b>Reverse Impact (ASTM D2794)</b>	10 Joules minimum
<b>Humidity Resistance (ASTM D2247)</b>	2000 hours: Pass
<b>Chemical Resistance (ASTM D1308)</b>	No significant colour change
<b>Salt Spray Resistance (ASTM B117)</b>	2000 hours: Pass

Test	Performance
<b>Weatherometer Test (ASTM D822)</b>	2000 hours: No checking, blistering or adhesion loss
<b>Colour Change (ASTM D2244)</b>	For period of 20 years delta E not exceed: <input type="checkbox"/> 6 units - light colour <input type="checkbox"/> 7 units - intermediate colour <input type="checkbox"/> 10 units - dark colour
<b>Chalking Resistance (ASTM D4214)</b>	No chalking greater than # 8
<b>Exterior Weathering (ASTM D4214)</b>	Ultimate exterior performance in South Florida test exposures
<b>Abrasion Resistance (ASTM D968)</b>	60 liters/mil minimum
<b>Solar Reflectance (ASTM E1980)</b>	ENERGY STAR Qualified Contributes points under LEEDS, Green Building Index (GBI)