

### Technical Data Sheet



#### General Description

DUOTONE PVF<sub>2</sub> Series™ is a custom formulated fluorocarbon paint system with pearlescent, solar reflective colours that amazingly shifts across the whole spectrum from one colour to another.

#### 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

DUOTONE 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 special high grade mica are used in DUOTONE 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 have long lasting finishes that are 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 - 35 microns 70% PVDF Kynar 500® or Hylar 5000® on the top or weather side. The finish coat is available in 3 standard specially selected colours.
<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</b> (ASTM D523)	20 - 30%
<b>Hardness</b> (ASTM D3363)	F minimum
<b>Bend Adhesion</b> (ASTM D4145)	4 T max
<b>Reverse Impact</b> (ASTM D2794)	10 Joules minimum
<b>Humidity Resistance</b> (ASTM D2247)	1000 hours: Pass
<b>Chemical Resistance</b> (ASTM D1308)	No significant colour change
<b>Salt Spray Resistance</b> (ASTM B117)	2000 hours: Pass

Test	Performance
<b>Weatherometer Test</b> (ASTM D822)	2000 hours: No checking, blistering or adhesion loss
<b>Colour Change</b> (ASTM D2244)	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</b> (ASTM D4214)	No chalking greater than # 8
<b>Exterior Weathering</b> (ASTM D4214)	Ultimate exterior performance in South Florida test exposures
<b>Abrasion Resistance</b> (ASTM D968)	60 liters/mil minimum
<b>Solar Reflectance</b> (ASTM E1980)	ENERGY STAR Qualified Contributes points under Leadership in Energy & Environmental Design (LEED), Green Building Index (GBI)