

# Interthane 990V

## Low VOC polyurethane finish

Interthane® 990V is designed to provide long-term cosmetic protection for assets in virtually all commercial and industrial exterior environments.

Interthane® 990V advances air pollution control technology for protective finishes through its attainment of ultra-low volatile organic compounds content (VOC <250 grams per liter) without compromises to typical polyurethane application or durability characteristics. These advancements have been made without the use of “exempt solvents” or hazardous air polluting solvents (HAPS).

Interthane® 990V applies well in both field and shop application conditions.

- Low VOC per US EPA Method < 250 g/L
- No hazardous air polluting solvents (HAPS)
- Excellent gloss and color retention over extended periods
- Fast drying properties allow quick handling or return to service
- Excellent application economies via high solids (71%)
- Full color offer via Chromoscan system
- Brush, roll or spray in a single coat using mildew resistant "Tank White" color



# Interthane 990V provides excellent durability and recoatability in a wide variety of environments

## Technical information

Color	Wide range via the Chromascan® system
Gloss level	High gloss
Volume solids	71% ±3%
Film thickness	2-3 mils (50-75 microns) dry equivalent to 2.8-4.2 mils (70-106 microns) wet
Theoretical coverage	569 sq.ft/US gallon at 2 mils DFT and stated volumes 14.20 m <sup>2</sup> /liter at 50 microns DFT and stated volumes
Practical coverage	Allow appropriate loss factors
Method of application	Air spray, airless spray, conventional spray, brush

Temperature	Touch dry	Hard dry	Overcoating interval with recommended topcoat	
			Minimum	Maximum
50°F (10°C)	7.5 hours	14 hours	14 hours	Extended
59°F (15°C)	5 hours	8 hours	8 hours	Extended
77°F (25°C)	2.5 hours	4 hours	4 hours	Extended
104°F (40°C)	45 minutes	1.5 hours	2 hours	Extended
Flash point (typical)	Part A 97°F (36°C), Part B >100° F (>212°C); Mixed 97°F (36°C)			

## Test data

TEST TYPE	TEST METHOD	SPECIFICATION DETAILS	TYPICAL RESULTS
Adhesion	ASTM D4541 – “Pull Off Strength of Coatings Using Portable Adhesion Testers”	1 x 2-3 mils (50-75 µm) DFT applied over an epoxy primer	Not less than 1740 psi (12 MPa) over approved primers
Abrasion	ASTM D4060 – “Abrasion Resistance of Coatings via the Taber Abraser”	1 x 2-3 mils (50-75 µm) DFT applied directly to blasted steel	Average of 67 mg weight loss per 1000 cycles using CS-10 wheels and a 1 kg loading
Flexibility	ISO 1519 – “Cylindrical Mandrel Bend Test”	1 x 2-3 mils (50-75 µm) DFT applied over smooth steel	Pass at 3 mm diameter mandrel
Hardness	ASTM D3363 – “Film Hardness by Pencil Test”	1 x 2-3 mils (50-75 µm) DFT applied directly to smooth aluminum	Classification B to H
Impact resistance	ASTM D2794 – “Resistance to the Effects of Rapid Deformation (Impact)”	1 x 2-3 mils (50-75 µm) DFT applied directly to blasted steel	Direct impact resistance – at least 5 Joules Reverse impact resistance – 7 Joules
Gloss retention	ASTM G53 – “Fluorescent UV/Condensation Type Exposure”	1 x 2-3 mils (50-75 µm) DFT applied directly to aluminum	≥ 75% following 3000 hours exposure

The above performance data has been compiled based on present experience of in-service product performance and upon performance data obtained under laboratory test conditions. Actual performance of the product will depend upon the conditions in which the product is used.

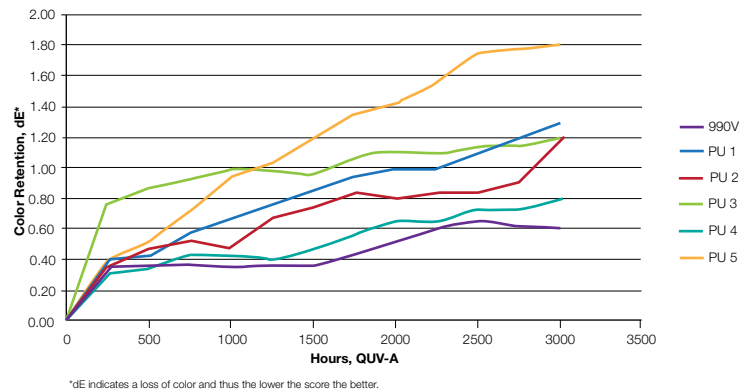
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Polyurethane Color Retention in QUV-A



Polyurethane Gloss Retention in QUV-A

