

Test Portfolio



Independent Laboratory Testing: Diamond Seal System Protective Treatments were applied to a White Water Based Aliphatic Polyurethane Paints and was tested in Norwalk, Connecticut and Homestead, Florida. Several test standards, including ASTM are as follows:

Surface Protection Characteristics: Aluminum Panels were coated with a White Water Based Aliphatic Polyurethane then coated with Diamond Seal Systems Protective Treatments and the results after testing.

ASTM G-53-84 Accelerated Weathering: Aluminum Panels were coated with a White Water Based Aliphatic Polyurethane then coated with Diamond Seal Systems Protective Treatments for Duration of 500 Hours and Type Direct Inland, 45 Degrees South Florida.

Inspection and Reporting Standards Commonly used standards methods for determining degradation effects and General Appearance.

Effects	Standards			Numerical Scale
Adhesion	ASTM D3359	ISO 2409		10
Blistering	ASTM D714	ISO 4628-2		10
Chalking	ASTM D4214	ISO 4628-7		10
Checking	ASTM D660	ISO 4628-4		10
Color (Visual)	ASTM D1729	ISO 3678		9
Corrosion	ASTM D1664	ISO 4628-8		10
Cracking	ASTM D661			10
Mildew Growth	ASTM D3274			10 None
Surface Rust	ASTM D610	ISO 4628-3		10
General Appearance				10
Gloss	60 Degrees			90 Degrees
Numerical Scales are used to depict the degree of effect being reported.				
Number	Quality	Changes		ISO
10	Excellent	No Effects		0
9	Excellent	Very Slightly		1

ASTM B-118 Salt Spray Test: Two Samples of the White Water Based Aliphatic Polyurethane treated with Diamond Seal Systems Protective Treatments after 166 Hours.

Results: There were no Discoloration (Corrosion) In Scribe Area, No Blisters on Surface and Film Removed from Scribe Area None.