## Exceeding the Standard Aluminum Powder Coating Process Approved Applicator





Not all architectural coaters meet the standards set by AkzoNobel



#### **Quality Management System**

Interpon D Approved Applicators must have a fully operational Quality Management System with written procedures and defined record keeping/documentation that covers, at a minimum, the mandatory requirements set forth by AkzoNobel to ensure that the metal pretreatment and powder application processes are carried out consistently and to the required standard.

#### Testing

Interpon D Approved Applicators' test laboratory must contain specific equipment suitable to carry out required testing. Testing is to be performed at defined intervals and methods to ensure pretreatment consistency, correct curing, and required film performance (i.e. appearance, film thickness, color, gloss and adhesion) on finished articles.



# Quality is always at the forefront of what we do. Alumi-Guard®

AkzoNobel undertakes an extensive evaluation process and only issues Interpon D Approved Applicator status to companies whose standard of coating, testing and quality management systems meet the demands of the architectural industry and have demonstrated their commitment to the highest standard of quality.

#### The Approval Process/Criteria

Quality Management Process/Criteria

AkzoNobel conducts a full audit of the applicator's process controls and quality management system, including testing.

• Pretreatment, Application and Curing

Coated panels and parts are submitted for extensive testing by AkzoNobel relative to coating appearance and performance.

#### Pretreatment, Application and Curing

Interpon D Approved Applicators must have the application facilities and necessary experience to apply the powder coating evenly to a controlled film thickness.

Pretreatment and application must meet the standards defined by AkzoNobel and/or AAMA with respect to substrate, cleaning, surface, preparation and pretreatment.

As oven temperature can vary during a work shift and can have a negative effect on the curing of the powder coating, applicators must check ovens at defined intervals to ensure no temperature shift has occurred. Temperature variations between the top and bottom of the oven are also to be monitored.

#### Audit & Renewal

AkzoNobel carries out full audits of its Interpon D Approved Applicators on a defined basis and frequently performs random spot checks to assess their continuing ability to comply with the approval criteria. There is also continuous improvement and training on processes for all powder coating personnel, including operators and supervisors.

In addition to the audit of the standards, as described above, the applicator must also submit finished parts annually for testing by AkzoNobel.

### What Makes Powder Coating an Environmentally Friendly Process?

Since powder coating does not use solvents or chemicals like liquid paints, the process releases less pollutants into the air and leaves a smaller carbon footprint.

Through the ability to reclaim and reuse over-sprayed material — unlike excess liquid paint that needs to be disposed — the powder coating process generates no hazardous waste. Powder coating reduces CO2 emissions by up to 60% compared to liquid paint.





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Alumi-Guard® surpasses the 10,000 hour Salt Spray Test (ASTM B-117), which is three times greater than the AAMA 2604-17a specifications.

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ACCELERATED WEATHERING							CHEMICAL RESISTANCE	ABRASION RESISTANCE		IMPACT RESISTANCE			FILM ADHESION			DRY FILM HARDNESS		GLOSS	SPECULAR		3	AND PRETREATMENT	PREPARATION	SURFACE		THICKNESS	DRY FILM		AT	
Alternate Accelerated	Accelerated Exposure	Cyclic Corrosion	Salt Spray Resistance	Oven Aging	Cold Crack Cycle	Humidity		I	I		I		Boiling Water Adhesion	Wet Adhesion	Dry Adhesion		I		I		I		Coating Weight	System		Topcoat	Primer	Total		ATTRIBUTES
N/A	Not required	Not required	1,500 hours ● ≥ 7 on scribe (average) ≥ 7 on cut edge (average) ● ≥ 8 blister in field (average)	Not required	Not required	1,500 hours ""Few" blisters max blister size No. 8	8.7	No loss of adhesion, blistering or visually apparent change after exposure to muriatic acid, mortar and detergent	0	N/A	No film removal Slight perimeter cracking ok	8.5	0% film removal No blistering	0% film removal No blistering	0% film removal No blistering	8.4	H minimum No rupture of film	8.3	± 5 units	8.2	Agreement	8.1	If Chrome, >323 mg/m2 If non-Chrome, per mfg	Multi-stage cleaning conversion coating	5.4 and 7.0	Must be >85% film specified, 17 micron minimum	Optional	Meet manufacturer specification 20 micron min (80% readings)	5.3	AAMA 2603-17a
N/A	Not required	Not required	3,000 hours ≥ 7 on scribe (average) ● ≥ 7 on cut edge (average) ≥ 8 blister in field (average)	Not required	Not required	3,000 hours ""Few"" blisters max blister size No. 8	8.8	No loss of adhesion, blistering or visually appare detergent, window c	≥ 20 L/mil	8.6	No film removal Slight perimeter cracking ok	8.5	0% film removal No blistering	0% film removal No blistering	0% film removal No blistering	8.4	F minimum No rupture of film	8.3	± 5 units	7.2	Agreement Suggested 2∆E	8.1	If Chrome, >431 mg/m2 If non-Chrome, per mfg requires in plant checks	Multi-stage cleaning conversion coating	7.0	Max of 5% less than 25 micron or 85% of spec	Optional	Meet manufacturer specification 30 micron min (80% readings)	5.3	AAMA 2604 2604-17a
N/A	Not required	2,000 hours ASTM G85 • ≥ 7 on scribe (average) ≥ 7 on cut edge (average) • ≥ 8 blister in field (average)	Not required	Not required	Not required	4,000 hours ""Few"" blisters max blister size No. 8	8.8	No loss of adhesion, blistering or visually apparent change after exposure to muriatic acid, mortar, detergent, window cleaner and nitric acid	≥ 40 L/mil	8.6	No film removal Slight perimeter cracking ok	8.5	0% film removal No blistering	0% film removal No blistering	0% film removal No blistering	8.4	F minimum No rupture of film	8.3	± 5 units	7.2	Agreement Suggested 2∆E	8.1	If Chrome, >431 mg/m2 If non-Chrome, per mfg requires in plant checks	Multi-stage cleaning conversion coating	7.0	Max of 5% less than 25 microns or 85% of spec	Optional	Meet manufacturer specification 30 micron min (80% readings)	5.3	AAMA 2605 2605-17a

AAMA STANDARDS COMPARISON - ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS