

Product specifications of

POLYDURE® E

A versatile, environmentally-friendly high solids polyester coating for the residential market

AkzoNobel



An enhanced version of POLYDURE E is the newest member of the AkzoNobel family of fine finishes for the aluminum extrusion industry.

After many years of successful application with the original POLYDURE E, our research and development group has released an improved version that is superior to current AAMA 2603 technologies.

Test data show it to be the finest high solids polyester on the market today.

Why was there a need to completely re-engineer POLYDURE E, which had a great track record of worry-free application? The answer was in the voice of our customers. Since the trend to return to high solids polyester technology continues to be strong with increased VOC and HAPS restrictions, we believe that this technology will be the coating of choice for residential and light commercial use for quite some time.

What are the features and benefits of this new system?

- Better coverage in difficult to reach areas.
- Painting the most difficult shapes beautifully the first time rather than having to depend on a second run for customer satisfaction.
- Better mileage per gallon for the applicator and therefore a lower applied cost.
- Better flexibility with improved hardness.
- Vastly improved resistance to metal marking.
- Larger windows of forgiveness in application without sags, solvent blisters, or "pull-away" from edges.
- Excellent surface clarity.
- Greatly improved exterior durability.

To make our vision of the future complete, we offer POLYDURE E in our EXPRESS Intermix system for exact quantity needs and exact color matching. This on-site and on-demand ability eliminates waste and reduces costs by recycling overages into new colors.

Architects and specifiers will find POLYDURE E to be an excellent finish for a variety of interior metal surfaces and residential window and door systems.

Disclaimer

The information contained herein is correct to the best of our knowledge. It is offered in good faith, but not to be construed as warranties as to performance of results, since the conditions of use of our products are beyond our control. We suggest that you evaluate the information presented here and determine the suitability of our products prior to commercial scale application.

POLYDURE E

product specifications

| | |
|-------------------------------------|---|
| Product Type | High solids polyester baked enamel. |
| Specification | Meets or exceeds all AAMA 2603 specifications. |
| Primer | None |
| Percent Solids (Package) | Weight solids 65-83%, Volume solids 57-68%. |
| Percent Solids (Application) | Reduce with heat only. |
| VOC | Less than 3.0 #'s / gallon. |
| VHAP | Less than 1.5 #'s / gallon. |
| HAP | Less than 1.0 #'s / gallon. |
| Reduction | Heat only unless Butyl Carbitol is needed for smoother appearance. |
| Viscosity | 13-23 seconds #3 Zahn @ 77° F. |
| Film Thickness | 1.3-2.3 wet mils, 0.8 - 1.2 mils dry. |
| Gloss Range | 5 to 85% @ 60° angle available, Intermix bases are 25-35% @ 60° angle. |
| Cure Schedule | Lab bake cycle 6 minutes @ 350° F. Production cure varies with the speed, oven temperature and metal mass being painted. Temperature must achieve 350° F and be maintained for 4 minutes minimum. |
| Cure | H+ pencil hardness and 50 MEK double rubs. |

AAMA 2603 specification

The following is part of the AAMA 2603 Specification. POLYDURE E has physical properties which more than qualify it for extrusion application.

| | | |
|---------|---|------------------------------|
| 6.4.1.1 | Dry Adhesion | No pick-off |
| 6.4.1.2 | Wet Adhesion | No pick-off |
| 6.5.1 | Direct Impact | No pick-off |
| 6.6.1.1 | Chemical Resistance | Excellent |
| 6.6.2.1 | Mortar Resistance | Pass - little or no staining |
| 6.6.3.1 | Detergent Resistance | Excellent |
| 6.7.1.1 | 1500 Hour Humidity Resistance | Pass |
| 6.7.2.1 | 1500 Hour Salt Spray Resistance | Pass |
| 6.8.1.1 | 1000 Hour Accelerated Weathering | Pass |
| 6.8.2.1 | 1 Year Outdoor Exposure | Pass |
| N/A | Pencil Hardness | H - 3H |

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AkzoNobel is a leading global paints and coatings company and a major producer of specialty chemicals. We supply industries and consumers worldwide with innovative products and are passionate about developing sustainable answers for our customers. Our portfolio includes well-known brands such as Dulux, Sikkens, International and Eka. Headquartered in Amsterdam, the Netherlands, we are consistently ranked as one of the leaders in the area of sustainability. With operations in more than 80 countries, our 50,000 people around the world are committed to delivering leading products and technologies to meet the growing demands of our fast-changing world.

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