





Date of issue: Feb-2016
Ref: 03127

Product Testing Reports

 Glass Coating System is a Water Bourne Polyurethane Hybrid Coating System specifically designed and manufactured for the decoration of glass. This coating system is the product of technical knowledge and over 20 years of field tested experience providing glass finishing solutions to fabricators. This system is environmentally friendly and contains near zero VOC and no APE's in wet or cured states. Only UV stable pigments have been used and all components of the system are designed to ensure a coating which has full chemical, moisture and physical resistance and enables Creative Mirror & Shower to offer extensive warranties.

The coating has been tested extensively to certify products performance to standards required for use in Australian, North American and Asian markets. In both a laboratory and Glass Processing facility scenario, this testing inclusive of:

- Accelerated Weathering in a QUV machine up to the equivalent of 10 years.
- Cross hatch and Boil tests.
- Cut and processing of coated glass on flat line polisher and waterjet / CNC machine.
- Testing in PVB, EVA & Liquid Pour systems for compliance.
- VOC & APE testing to verify product contains near zero VOC or no APE's.
- Coatings passed all criteria for above testing procedures. All test results conducted and certified by an independent laboratory. Certificates available upon request.

 System is has completed independent testing with Intertek USA to verify products performance to specifications. The following tests were performed and passed:

- ASTM C 650 – Chemical Resistance (per chemical) – Standard Test Method for Resistance of Coated Glass to Chemical substances.
- ASTM D570 –Water Absorption – Standard Test for the Water Absorption of Coating.
- ASTM D 3359 Adhesion – Standard Test Methods for Measuring Adhesion by Tape Test.
- ASTM D 2197 Scrape Adhesion – Standard Test Methods for Measuring Adhesion by Tape Test.
- ASTM D 4587 UV Exposure (per hour) – Standard Practice for Fluorescent UV – condensation Exposures of Paint and related Coatings.
- ASTM D 2244 Colour Measurement – Standard Practice for Calculation of Colour Tolerances and Colour Differences from Instrumentally Measured Colour Co-ordinates.

Full reports available upon request