



Product Testing Results Summary

Si-COAT 531

Test	Description	Requirements	Results
Tests Conducted by Nelson Testing Laboratories			
ASTM D7089	<p><i>Standard Practice for Determination of the Effectiveness of Anti-Graffiti Coating for use on Concrete, Masonry and Natural Stone Surfaces by Pressure Washing</i></p> <p>This practice covers a basic method for evaluating the performance of anti-graffiti products on mineral building substrates by a series of increasingly abrasive cleaning methods. The anti-graffiti materials are applied to a series of concrete, masonry and natural stone specimens for evaluation. Graffiti resistance is based on how a defined set of markings are removed by a designated set of cleaning techniques.</p>	<p>Cleanability 1 - Graffiti completely removed with high-pressure cold water wash</p> <p>Cleanability 2 - Graffiti completely removed with commercial based graffiti remover and high-pressure cold water wash</p> <p>Cleanability 3 - Graffiti completely removed with high-pressure hot water wash</p> <p>Cleanability 4 - Graffiti completely removed with a sodium bicarbonate pressure wash</p>	<p>Cleanability 1 - Graffiti completely removed with high-pressure cold water wash on all 3 test panels with 1200 psi water pressure. Removed Solvent-based markers and spray paints (black, blue and red)</p>
ASTM D1640 Section 7.2 and 7.7	<p><i>Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature</i></p> <p>These test methods cover the determination of the various stages and rates of film formation in the drying or curing of organic coatings normally used under conditions of ambient room temperature.</p> <p>7.2 - Set-To-Touch Time, 7.7 - Dry-Through (or Dry-To-Handle) Time</p>	<p>Reported Value of Set to Touch Time (min)</p> <p>(30 - 40 min at standard conditions 25 °C and 50% relative humidity - 10 mils wet film thickness)</p>	<p>39 min (25°C - 3 mil wet film thickness)</p>
		<p>Reported Value of Dry Through Time (min)</p> <p>(4 - 6 hours at standard conditions 25 °C and 50% relative humidity - 10 mils wet film thickness)</p>	<p>70 min (25°C - 3 mil wet film thickness)</p>



Test	Description	Requirements	Results
Tests Conducted by RINKO & Associates, LLC – Advanced Analytical Chemistry & Material Engineering			
ASTM D3960	<p><i>Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings</i></p> <p>This practice measures the volatile organic compound (VOC) content of solvent borne and waterborne paints and related coatings as determined from the quantity of material released from a sample under specified bake conditions and subtracting exempt volatile compounds and water if present.</p>	<p>Manufacturer reported value of Volatile Organic Compounds</p> <p>(230.1 g/L)</p>	217 g/L
Tests Conducted by PRI Construction Materials Technologies			
ASTM D6904	<p><i>Standard Practice for Resistance to Wind-Driven Rain for Exterior Coatings Applied to Masonry.</i></p> <p>This practice is for the evaluation of the ability of coatings to resist the passage of water through masonry block when exposed to water spray and air pressure.</p>	<p>Average weight gain of 3 specimens shall be less than 3.2 Oz.</p>	0.29 Oz.
		<p>No Visible Water Leaks</p>	Pass (No visible water)
ASTM D1653 (Wet Cup Method)	<p><i>Standard Test Method for Water Vapor Transmission of Organic Coating Films.</i></p> <p>These test methods cover the determination of the rate at which water vapor passes through films of paint, varnish, lacquer, and other organic coatings. The films may be free films or they may be applied to porous substrates.</p>	<p>Manufacturer reported value of Water Vapor Transmission (WVT in $\frac{\text{grains}}{\text{h} \cdot \text{ft}^2}$)</p> <p>(Not reported)</p>	$5.2 \frac{\text{grains}}{\text{h} \cdot \text{ft}^2}$
		<p>Manufacturer reported value of Perm Rating (in Perms)</p> <p>(Not Reported)</p>	12.6 Perms



Test	Description	Requirements	Results
Tests Conducted by PRI Construction Materials Technologies			
ASTM D412	<p><i>Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.</i></p> <p>These test methods cover procedures used to evaluate the tensile (tension) properties of vulcanized thermoset rubbers and thermoplastic elastomers.</p>	<p>Manufacturer reported value of Tensile Strength (psi)</p> <p>(150 psi)</p>	294.3 psi
		<p>Manufacturer reported value of Elongation (%)</p> <p>(100 %)</p>	230 %
ASTM D2697	<p><i>Standard Test Method for Volume Non-volatile Matter in Clear or Pigmented Coatings</i></p> <p>This test method is believed to be applicable to the determination of the volume of non-volatile matter of a variety of coatings.</p>	<p>Manufacturer reported value of Volume Solids (%)</p> <p>(Not Reported)</p>	65.6 %
		<p>Manufacturer reported value of Density (lb/gal)</p> <p>(7.93 lb/gal minimum)</p>	9.72 lb/gal