

Physical Characteristics & Test Data Grip-Gard Plus Sign Finishes

Akzo Nobel's Grip-Gard Plus for metal has been tested using the methods listed below with very good results on a variety of substrates.

Test Description	Test Method	Test Results	Conclusions
QUV	ASTM-D4587	1500 hrs= 94% gloss retention	Excellent
Humidity	ASTM-D-2247	30 Days / Blistering = 0 on scale of 1-10 Adhesion = 5A	No effect
Water Immersion	ASTM-D870	5 Days / Blistering = 0 on scale of 1-10 Adhesion = 5A	No effect
Pencil Hardness	ASTM-D-3363	2H	Good mar & scratch resistance
Salt Spray	ASTM-D-117	250 Hours / Adhesion = 5A Blistering F/ 8 Rust Creep =<1	Good adhesion; with virtually no blisters / rust
Impact Resistance	ASTM-D-2794	Direct - 120 inch-lbs Reverse - 64 inch-lbs	Excellent
Flexibility	ASTM-D-522	Pass at 3.0 mils film thickness	Good Flexibility
MEK Double Rubs	ASTM-D-4752	Over 200 double rubs	No effect
Gravelometer (Stone chip resistance)	ASTM-D-3170	GM Rating 7	Excellent
GM Accelerated Corrosion	GM9540P	80+ cycles / Blistering F/ 8 Rust Creep =<1	Excellent corrosion resistance

Chemical Resistance Testing

Grip-Gard Plus has been tested for chemical resistance against the following assortment and has shown excellent resistance to damage.

Acetic Acid, Aqueous Fire Fighting Foam (AFFF), Anti-freeze, Brake Fluid, Diesel Fuel, Diesel Fuel Conditioner, Truck Wash Solutions, Hydrochloric Acid, Hydraulic Fluid, Sodium Hydroxide, Phosphoric Acid, Sulfuric Acid, Unleaded Fuel, Graffiti Removers. Test results may be dependent on substrate and the preparation of the substrate as well as pretreatments and primers used.