RUST STOPS HERE.

1101 Cumberland Xing #180
Valparaiso, IN 46383

RustSeal - Technical Info & Specifications

Physical Data

Type of coating: Single Component Moisture Curing Polymeric Isocyanate

Colors: Gloss Black, Satin Black, Silver, Grey, Oxide Red, Green, Off-White, Cat Yellow, Galvanized Steel, Safety Blue.

Gloss: Galvanized Steel (35%), Satin Black (60%), Other Colors (70-80%)

Solids: 72-76% depending on color.

Flash Point: 103°F (40°C)

Viscosity: at 77°F (25°C) 250-450cps depending on color.

VOC: ≤200gl

Minimum Recommended Dry film thickness: 3-5 mils (75-125um) this is normally achieved in 2-3 coats.

Coverage: On porous surfaces (like rust and corrosion) approximately 100 ft^2 per quart or 400 ft^2 per gallon (9.5m^2 per liter) at 2 mils (50um) thickness. Coverage will vary depending on surface profile, application method and film thickness.

General appearance and Characteristics: Smooth ceramic like finish with very high levels of flexibility and toughness. Strong resistance to impact, high temperature, abrasion and common aggressive chemicals including; Acids, Alkalis, Salts, Minerals, Solvents, Fuels and Hydraulic fluids.

Compatibility with other topcoats: RustSeal can be topcoated with any type of topcoat and primer systems including but not limited to Urethanes, Epoxies, Enamels, Fiberglass resins, Water based coatings, lacquers and two component automotive refinishing products.

Container Availability: 8oz (236mls), Pint (475mls), Quart (946mls), Gallon (3.78L), 5 Gallon (18.9L), Drum 55 Gallon (208L)

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Clean Up & Storage

Pot life: Pot life will depend on local humidity conditions and the length of time the coating is exposed to moisture. Providing the can is resealed well and only opened for limited periods at a time, the average life is approximately 1-2 months.

Solvent: Use only KBS #1 thinner. The use of other solvents can cause premature coating failure and or loss of adhesion.

Storage Requirements: Store in cool dry conditions away from direct sun light 41-95°F (5-35°C)

Dry Times

Temp & Humidity	90°F/32°C	75°F/24°C	55°F/12°C
0-25%	2 Hrs	2.5 Hrs	3.5-4 Hrs
50%	2 Hrs	2.5 Hrs	3.5-4 Hrs
70%	1.5 Hrs	2 Hrs	3 Hrs
85-100%	1-1.5 Hrs	1.5-2 Hrs	2.5-3 Hrs

Full Cure: 24 Hrs depending on humidity.

Physical & Performance Characteristics

Elongation Rate (ASTM-D-412)	79%
Salt water resistance (ASTM B-117) 95°F (35°C) at 5% salt water for 2000 Hrs	No noticeable change
Abrasion Resistance (ASTM-C-501) (1 kg load/1000 cycle)	Zero (0) Weight Loss
Impact Resistance (MIL-D-3134F sec 4.7.3)	Exceeds 16ft/lb
Impact Resistance (MIL-D-3134J)	Satisfactory per ¶ 3.1
Tensile Strength (ASTM C-307 psi)	> 3,200 psi
Flexural Strength (ASTM C-580 psi)	> 5,200 psi
Compressive Strength (ASTM C-579 psi)	> 12,500 psi
Flammability (ASTM-D-635)	Self-extinguishing
Indentation (MIL-D-3134F sec 4.7.4)	2,000psi /30min No indentation

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TEMPERATURE, WEATHER & BACTERIA RESISTANCE

Porosity (NACE Stand TM0174) *Across Entire Color Range	0.00, Completely Non-porous
Bacterial & Fungus Resistance (Mil-F-52505)	Zero (0) Growth
Salt Spray Resistance (ASTM B-117) 250 hrs @ 98°F / 37°C 1000 hrs @ 98°F / 37°C	 Zero (0) Change Zero (0) Change
Resistance to elevated temperatures (Mil-D-3134F)	500ºF/260º
Water Absorption (ASTM C-413)	0.0001 maximum
Thermal cycling (NTS Climatic Test Cell) 120 day cycle (-30°F-140°F / -34°C-60°C)	Passed

CHEMICAL RESISTANCE

Results of contact spot testing of RustSeal with various common materials.
RustSeal applied to steel Q panels at 4 mil (100um) film thickness and placed in continuous contact with the following materials for 168 Hr (7days).

Product	Time	Result
Sodium Hydroxide 10%	168Hr	Some discoloration, coating intact
Sulphuric Acid 20%	168Hr	Some discoloration, coating intact
Hydrochloric Acid 40%	168Hr	No noticeable change
Phosphoric Acid 20%	168Hr	No noticeable change
Ammonium Chloride (Fertilizer)	168Hr	No noticeable change
Brake fluid	168Hr	No noticeable change
MEK (Strong Solvent)	168Hr	No noticeable change
93 octane Fuel	168Hr	No noticeable change
Xylene	168Hr	No noticeable change
Hydraulic fluid	168Hr	No noticeable change
Diesel	168Hr	No noticeable change

Information contained herein is to our knowledge true and accurate, but all recommendations or suggestions are made without guarantee. Since their application lies outside our control, we cannot accept any liability for the results. User shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith.