



Product Data

Castrol Braycote 194

Corrosion Preventive Compound Solvent Cutback
Cold Application, Transparent, Non-Tacky Film

Description

Castrol Braycote™ 194 is a dark brown, liquid corrosion preventive compound intended for indoor exposure. It is a solvent cutback material designed for cold application, and dries in approximately two hours, leaving a firm, amber, transparent film that will not flow below 175°F (80°C).

Application

Braycote 194 is designed to protect unpainted metal surfaces from the effects of indoor or shed exposure for periods up to one year. It is non-corrosive and readily wets the surfaces of commonly used metals, leaving a continuous film after evaporation of the solvent. This product may be applied by spray, dip or brush. A gallon will cover approximately 300 to 1,600 square feet, leaving a film 1 to 4 mils thick, depending upon method of application and surface geometry. Optimal performance can be achieved only when the metal surfaces to be protected are clean, dry and free of rust, oil and mill scale. It is recommended that the metal substrate and ambient temperature be 50-95°F (10-35°C) at the time of product application.

Typical Characteristics

Test	Method	Units	MIL-PRF-16173E CLASS I, GRADE 4 REQUIREMENTS	Result	
Film Characteristics Transparency	Spec 4.6.11.7	Pass/Fail	Continuous and no cracks Pass	Pass	
Nonvolatile Content	Spec 4.6.5.1	%	54.0 - 60.0	55.3	
Solvent Distillation Endpoint	Spec 4.6.1 ASTM D86	°C/°F	212/410 Maximum	Pass	
Sprayability @4°C/40°F, 35 psig	Spec 4.6.7	gm/sec Report	1.0 Minimum Continuous	Flow rate	10.8
Quality of Coverage				Pass	
Corrosion, 7 days @55°C/130°F, Wt Change					
Brass	Spec 4.6.8	mg/cm ²	±1.0 Maximum	-0.108	
Cadmium				-1.473	
Zinc				-1.424	
Magnesium				-0.023	
Aluminum				-0.003	
Steel				-0.007	
Sulfated Residue	ASTM D874	%	3.96 - 4.82	4.48	
Flash Point, PMCC	ASTM D93	°C/°F	38/100 Minimum	41/106	
Removability	Spec 4.6.10.1	Pass/Fail	Pass	Pass	
Film Thickness	Spec 4.6.11.2	Mils	2.0 Maximum	1	
Humidity Cabinet	Spec 4.6.11.3	days	30 Days Minimum	Pass (30+)	
Salt Spray, Days	Spec 4.6.11.4	days	14 Days Minimum	Pass (17+)	
Flow Point, 4 Hrs @80°C/175°F	Spec 4.6.15	Pass/Fail	Pass	Pass	
Low Temperature Adhesion	Spec 4.6.12	Pass/Fail	No Flaking	Pass	
Pour Point	ASTM D97	°C/°F	Report	-18/0	
Film Drying and Tackiness	Spec 4.6.13	Pass/Fail	Pass	Pass	
Volatile Organic Content	Spec 4.6.5.2	Report	> 2.8 lbs/gal	3.24	
Stability	Spec 4.6.6	Pass/Fail	Pass	Pass	

Subject to usual manufacturing tolerances.

Additional Information

Removal

Braycote 194 can be removed from exposed surfaces by vapor degreasing, hot caustic, steam, or petroleum solvents.

Specification

Braycote 194 meets the requirements of and is qualified to MIL-PRF-16173E, Class I, Grade 4.

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