

CHO-SHIELD® 1091 PRIMER

Adhesion Promoter for Conductive
Polyurethane Coatings



Customer Value Proposition

[Parker Chomerics CHO-SHIELD® 1091 primer](#) is an air-drying liquid coating for enhancing the adhesion of CHO-SHIELD 2000 series electrically conductive coatings and CHO-BOND 2165 to chemically treated aluminum, and most composite surfaces. Using CHO-SHIELD 1091 primer prior to application of the CHO-SHIELD 2000 series coatings/CHO-BOND 2165 sealant ensures optimal adhesion to the substrate eliminating the possibility of re-work due to adhesion issues.

Product Features

- Easy application
- Quick drying
- One component
- Red tint enhances visual inspection



Contact Information

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Application

For best bonding results, use the following application procedure:

Thoroughly clean the chemically treated surface such as MIL-DTL-5541, Type II, Class 3 chromate conversion with an appropriate solvent such as methyl ethyl ketone (MEK), isopropyl alcohol (IPA), etc.

Air-dry for 15 minutes. Wet a lint-free cotton cloth with CHO-SHIELD 1091 primer. Apply primer to the surface in horizontal and vertical strokes. Keep the surface wet at all times. After the entire surface has been coated, air-dry at room temperature for 1 hour or at 88°C (190°F)

for 30 minutes.

Note: If primed surfaces are not coated within 4 hours of the primer application, repeat the cleaning and primer application procedures, again, before coating. To eliminate the risk of an increase in surface resistance, only a light coating of the primer is recommended.

CHO-SHIELD® 1091 Product Information

Table 1 - Typical Properties

Typical Properties	Specifications	Test Method
Viscosity at 27°C (77°F), centipoises	5	N/A
Color	Red	N/A
Specific Gravity	0.8	ASTM D792
Flash Point	11 °C (52 °F)	N/A
Continuous Use Temperature	- 52 °C to 82 °C (-67 °F to 180 °F)	N/A
Elevated Temperature Cure Cycle	30 min. @ 88 °C (190 °F)	N/A
Room Temperature Cure	1 hr.	N/A
Working Life	N/A	N/A
Shelf Life, unopened from Date of Manufacture	9 months @ 25°C (77°F)	N/A
Minimum thickness recommended	0.0001 in (0.00254 mm)	N/A
Maximum thickness recommended	0.0005 in (0.01270 mm)	N/A
Volatile Organic Content (VOC)	800 g/l	Calculated

Note: N/A – Not Applicable, (Q/C) - Quality Conformance Tests, (Q) - Qualification Tests.

CHO-SHIELD® 1091 Ordering Information

Product	Weight (grams)	Packaging	Part Number
CHO-SHIELD 1091	95	4 fluid ounce plastic bottle	50-00-1091-0000
	190	8 fluid ounce plastic bottle	50-01-1091-0000

* CHO-SHIELD 1091 is provided with selected kits of CHO-SHIELD 2003. It is not provided with any kits of CHO-SHIELD 2001 or 2002.

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