

Application Note

CHO-BOND® 2165

Two Component Corrosion Resistant
Electrically Conductive Polyurethane Sealant



Customer Value Proposition:

CHO-BOND 2165 is a stabilized-copper filled, two-component polyurethane conductive sealant specifically designed for aerospace and military applications. CHO-BOND 2165 provides a conductive, corrosion resistant protective compound for aluminum and composite airframes used in conjunction with Parker Chomerics CHO-SHIELD 2000 series EMI coatings.

CHO-BOND 2165 is a good compound choice for EMI shielding and electrical grounding applications. This thick conductive paste may be used as fastener fill, gap fill, or repair compound for aircraft.

It achieves full properties in less than 4 hours with a combination room temperature cure plus a 113°C cure minimizing aircraft downtime. Due to material shrinkage, multiple applications may be necessary. CHO-BOND 2165 is designed to be used with CHO-SHIELD 1091 Primer (sold separately).



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Product Features:

- Excellent electrical conductivity (0.010 ohm-cm)
- Very good corrosion resistance on aluminum substrates
- Aircraft fluid resistance
- Chromate free making it environmentally friendly
- Thick paste can be used on overhead or vertical surfaces
- Elevated temperature cure option (15 minutes at 113°C) as well as room temperature cure option



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Application

Apply in a well-ventilated area.

Part A (copper color) should first be mixed separately, as settling may have occurred. When homogeneous, weigh out Part A and Part B in the ratio of 100 : 7.02. For mixing, always add Part B to Part A. Add small amounts of Part B, mix thoroughly, then add more Part B, and mix again.

Repeat until all of Part B is used up. Mix the entire compound thoroughly to a uniform consistency and color, at least 50 strokes by hand, scrapping the sides and bottom of the container. No marbling or color striations should be present.

Immediately apply the material using a spatula or caulking cartridge.

The recommended cure is 7 days at room temperature, or 4 hours at room temperature followed by 0.5 hours at 125°C (257°F) or 4 hours at room temperature followed by 2 hours at 93°C (200°F)

Read and become familiar with the provisions of the SDS before using this, or any other reactive material.