

PRODUCT HIGHLIGHTS

Opaque & Reflective Coatings for Glass, Metals & Quartz

- 845** Ceramic-metallic, brown-gray, opaque, waterborne coating for glass and quartz to 2000 °F. Also available in blue, silver, white, black, light or dark green.
- 850** Glass-ceramic, white, waterborne coating for glass and quartz to 1500 °F.
- CP4010-S**¹ Silicone-based, silver coating for glass, quartz and metal to 1100 °F.
- CP4040-S**¹ Silicone-glass-ceramic white coating for glass and quartz to 1100 °F.
- CP4040-S1**¹ Silicone-glass-ceramic white coating for metals to 1300 °F.

High Emissivity Coatings

- 840-C** Ceramic-black coating for ceramic fiberboards and refractories to 2500 °F.
- 840-CM** Ceramic-black coating for metals to 1200 °F, refractories to 2500 °F.
- 840-M** Ceramic-silicone black coating for carbon and stainless steel to 2000 °F.
- CP4000**¹ Silicone based, black coating for metals and refractories to 1100 °F.
- CP4000-S**¹ Silicone resin based, black coating for metals to 1100 °F.

Thermal Spray Sealers

- 503-VFG-C**² Ceramic-based, one-part, white, abrasion and corrosion resistant sealer to 3000 °F.
- CP2000**¹ Urethane-based, one-part, black, abrasion and corrosion resistant sealer to 400 °F.
- CP2070**¹ Corrosion resistant, two-part, gray, Novolac-epoxy to 300 °F.

Glass Sealers

- 613** Glass-based adhesive/sealer for use with ceramics to 1150 °F.
- 617** Glass-based adhesive/sealer for use with ceramics to 1450 °F.

Fiberoptic Adhesives / Sealers

- 380** Low viscosity, silicone adhesive and sealer for bonding fiber optics to ceramic and stainless steel ferrules to 716 °F (380 °C).
- 503-VFG-C**² Ceramic-based, one-part adhesive for bonding fiber optics to ceramic and stainless steel ferrules to 3000 °F (1650 °C).

Ceramic Fiberboard Sealers

- CP40xx**¹ A series of colored coatings to prevent dusting of refractory boards to 1100 °F.

Electrical Coatings and Sealers

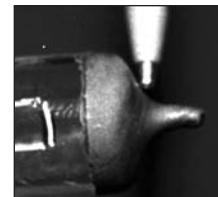
- 512-N** Ceramic coating for circuit breakers, resistors and solenoids to 2400 °F
- 529** Clear silicone sealer with exceptional electrical and moisture resistance to 600 °F.
- 538-N** Ceramic-gray coating for lug resistors and rheostats to 2600 °F. Also available with black and green pigments.
- CP40xx**¹ A series of silicone-ceramic coatings for motor windings and resistors to 1100 °F.

¹ Refer to Technical Bulletin A6 for details and available colors.

² Ceramacoat 503-VFG-C is a low viscosity version of Ceramabond 503. Refer to Tech Bulletin A2 for details.



Quartz-Coat™ 845 Series coatings are used for auto headlamps, stadium lighting and semicon process vessels.



Quartz-Coat™ 850 coats quartz IR heater tubes.



HiE-Coat™ 840-M coats exhaust pipe insulation.



HiE-Coat™ 840-C coats ceramic infrared heater.



Cerama-Dip™ 538-N-Black coats rheostats.



Corr-Paint™ CP4050 coats resistor.



Corr-Paint™ CP4040-S white reflective coating for quartz lamps.



Ceramabond™ 503 bonds fiberoptics into metal ferrule.

HIGH TEMPERATURE SPECIALTY COATINGS & SEALANTS

| Product Number | 380 | 512-N | 529 | 538-N | 613 | 617 | 840-C | 840-CM | 840-M | 845 | 845-BLACK | 845-BLUE | 845-GREEN | 845-SILVER | 845-WHITE | 850 |
|-----------------------------|-------------|---------------------------|-----------------------|-----------------------------|--------------|--------------|-------------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------|------------------------|
| Tradename | Fiber-Bond | Ceramacoat | Aremco-Seal | Aremco-Dip | Aremco-Seal | Aremco-Seal | HiE-Coat | HiE-Coat | HiE-Coat | Quartz-Coat | Quartz-Coat | Quartz-Coat | Quartz-Coat | Quartz-Coat | Quartz-Coat | Quartz-Coat |
| Binder | Silicone | Inorganic Silicon Dioxide | Silicone | Inorganic Zirconia Silicate | Glass | Glass | Inorganic Black Ceramic | Inorganic Black Ceramic | Inorganic Black Ceramic | Inorganic Silicon | Inorganic Black Ceramic | Inorganic Blue Ceramic | Inorganic Green Ceramic | Inorganic Mica | Inorganic Zirconia Silicate | Glass Titanium Dioxide |
| Major Constituent | | | | | | | | | | | | | | | | |
| Max Operating Temp. °F (°C) | 716 (380) | 2400 (1316) | 600 (316) | 2600 (1427) | 1150 (620) | 1450 (788) | 2500 (1371) | Metals: 1200 (649) Ceramics: 2500(1371) | 2000 (1093) | 2000 (1093) | 1500 (816) | 1500 (816) | 1500 (816) | 1500 (816) | 1500 (816) | 1500 (816) |
| No. Components | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Viscosity, cP | 1,000-2,000 | 70,000-80,000 | 800-850 | 70,000-80,000 | 2,000-4,500 | 1,100-1,500 | 300-700 | 2,000-4,000 | 2,000-4,000 | 400-700 | 3000-4000 | 400-700 | 6000-7000 | 400-700 | 400-700 | 3,000-5,500 |
| Specific Gravity, g/cc | 1.06 | 1.93 | 1.15 | 3.10 | 1.35 | 1.45 | 1.50 | 1.75 | 1.40 | 1.55 | 1.74 | 1.56 | 1.66 | 1.49 | 1.83 | 1.65 |
| Solids by Weight, % | 21.0 | 76.0 | 42.0 | 87.0 | 53.5 | 57.0 | 47.5 | 56.8 | 42.5 | 51.0 | 55.8 | 61.0 | 52.8 | 42.5 | 60.0 | 55.5 |
| Color (after curing) | Clear-Tan | Off-White | Clear | Gray | Gray | Clear | Black | Black | Black | Brown-Gray | Black | Blue | Lt Green or Dark Green | Silver-Matte | White | White |
| Air Set, Hr/Min | 1-2 Hr | 4-6 Hr | 1 Hr | 1 Hr | 1 Hr | 1 Hr | 3 Hr | 1 Hr | 1 Hr | 5 Min | 5 Min | 5 Min | 5 Min | 5 Min | 5 Min | 30 Min |
| | | | | | | | | | | | | | | | | |
| Heat Cure, °F, Hr/Min | 450, 1 Hr | 200, 4 Hr + 300, 1 Hr | 200, 1 Hr + 500, 1 Hr | 200, 1 Hr + 350, 1 Hr | 1150, 30 Min | 1600, 30 Min | NR | 200, 30 Min + 500, 1 Hr | 200 F, 1 Hr | 200, 5 Min + 900, 5 Min | 200, 5 Min + 900, 5 Min | 200, 5 Min + 900, 5 Min | 200, 5 Min + 900, 5 Min | 200, 5 Min + 900, 5 Min | 200, 5 Min + 900, 5 Min | 1600, 15 Min |
| | | | | | | | | | | | | | | | | |
| Thinner | 380-T | 512-N-T | MEK | 538-N-T | Water | Water | 840-C-T | 840-CM-T | 840-M-T | 845-T | 845-T | 845-T | 845-T | 845-T | 845-T | Water |
| Flash Point, °F (°C) | > 212 (100) | NA | 77 (25) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| VOC's, lbs/gal | 0.5 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Shelf Life, months | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Storage Temperature, °F | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 | 40-90 |

Notes:

Properties for the following products described in Product Highlights section are provided in the indicated Technical Bulletin below:

503-VFG-C A2
CP2000 A6
CP2070 A6
CP40xx-Series A6

538-N-Black
538-N-Green

Abbreviations:

NA - Not Applicable
NR - Not Required

845-GreenLT, Light Green
845-GreenDK, Dark Green

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