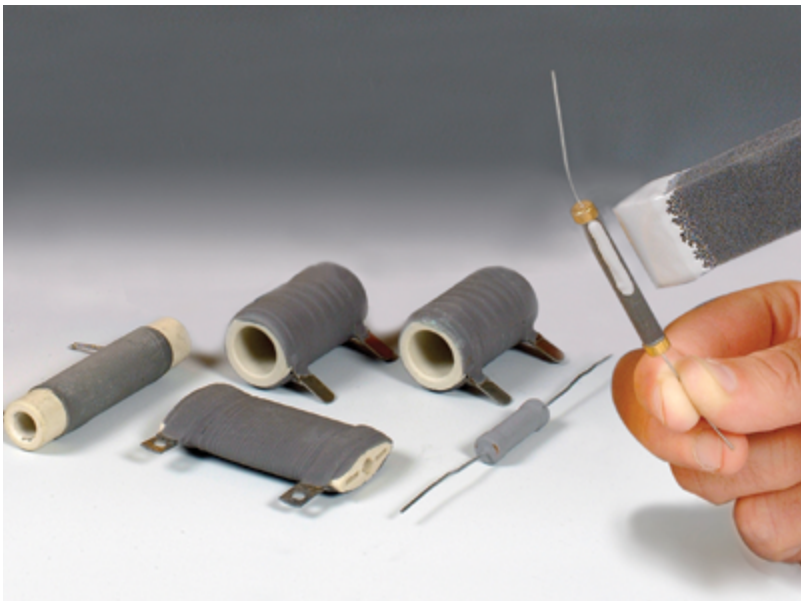


Cerama-Dip™ 538N coats resistors.

PRODUCT HIGHLIGHTS

Ceramic-Inorganic

512-N Viscous, off-white paste for circuit breakers, power resistors and solenoids to 2400 °F (1316 °C).

538-N Low viscosity, light gray coating for power resistors and rheostats to 2600 °F (1427 °C). Black and green pigments also available.

Silicone

529 Transparent silicone sealer with exceptional electrical and moisture resistance to 600 °F (316 °C). High viscosity (HV) and very high viscosity (VHV) versions available. Ideal for use in cartridge heaters.

Silicone-Ceramic

4030 Translucent-white, low-viscosity sealer for porous materials to 900 °F (482 °C).

CP4040 Low viscosity, white coating for motor windings to 1100 °F (593 °C).

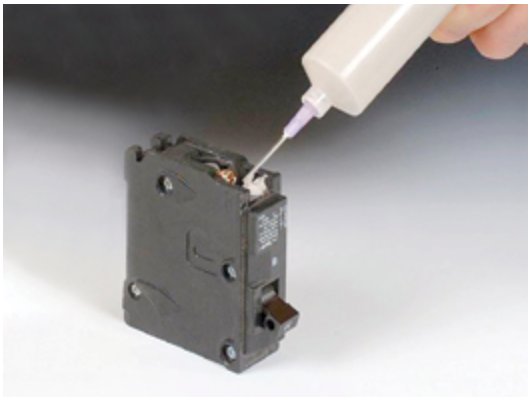
CP4050 Low viscosity, green coating for power resistors to 1100 °F (593 °C).

Silicone-Glass

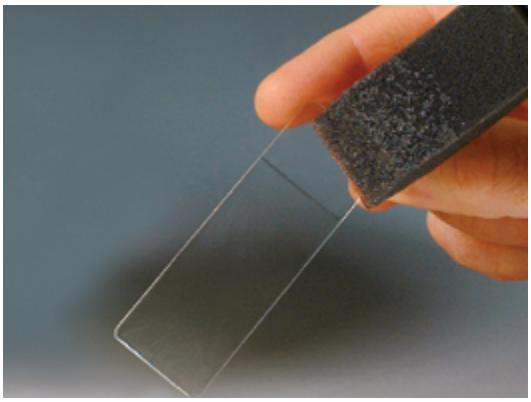
SGC4000 Silicone-glass-ceramic, gray, low viscosity, scratch resistant coating for stainless steel to 900 °F (482 °C).

Glass

GC4000 Glass-enamel, gloss-black coating for stainless steel to 1000 °F (538 °C).



Ceramacoat™ 512-N insulates circuit breaker screw.



Aremco-Seal™ 529 transparent sealer.

Cerama-Dip™ 538N-BLK coats rheostats.

HIGH TEMPERATURE ELECTRICAL COATINGS & SEALANTS

Type	CERAMIC-INORGANIC				SILICONE-CERAMIC			SILICONE			SILICONE-GLASS	GLASS
Product Number	**512-N**	**538-N**	**538-N-BLK**	**538-N-GRN**	**4030**	**CP4040**	**CP4050**	**529**	**529-HV**	**529-VHV**	**SGC4000**	**GC4000**
Tradename	Ceramacoat™	Cerama-Dip™			Aremco-Seal™	Corr-Paint™		Aremco-Seal™			Glass-Coat™	
Color (cured)	Off-White	Light Gray	Black	Green	Translucent-White	White	Green	Clear	Clear	Clear	Light Gray	Black
Maximum Temperature, °F (°C)	2400 (1316)	2600 (1427)	2600 (1427)	2600 (1427)	900 (482)	1100 (593)	1100 (593)	600 (316)	600 (316)	600 (316)	900 (482)	1000 (538)
No. Components	1	1	1	1	1	1	1	1	1	1	1	1
Viscosity, cP[1]	60,000–80,000	5,000-15,000	5,000-15,000	20,000-30,000	50–100	400–900	500–750	50–250	1,200–1,600	12,000–14,000	40–80	200–400
Specific Gravity, g/cc	1.98	1.55	1.57	1.73	1.31	1.27	1.31	1.05	1.09	1.22	1.59	1.65
Dielectric Breakdown Strength, VDC/mil	160	135	110	142	> 750	310	285	> 335	> 430	> 375	1,000	45
Solids by Weight, %	75.9	55.3	55.5	62.3	55.8	44.2	48.5	68.0	74.9	80.0	74.0	62.2
Solids by Volume, %	55.0	32.3	32.6	42.0	43.3	46.1	39.5	60.9	69.0	75.3	55.5	37.8
WFT, mils (microns)[2]	1.82 (46.2)	3.10 (78.6)	3.07 (78.0)	2.38 (60.5)	2.31 (58.6)	2.17 (55.1)	2.53 (64.3)	1.64 (41.7)	1.45 (36.8)	1.33 (33.7)	1.80 (45.8)	2.64 (67.1)
DFT, mils (microns)[3]	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)
Theoretical Dry Film Coverage[4] @ 1 mil, ft²/gal (m²/liter)	882 (21.6)	518 (12.7)	523 (12.8)	674 (16.5)	695 (17.1)	740 (18.2)	634 (15.6)	976 (24.0)	1106 (27.2)	1208 (29.6)	890 (21.8)	607 (14.9)
Curing, Min Air Set, hrs[5]	2–4	1.0	1.0	1.0	1.0	1.0	1.0	0.5–1.0	0.5–1.0	0.5–1.0	0.25	0.5
Curing, Heat Cure, °F, hrs	200, 2–4 + 350, 1–2 + 500, 1	200, 2–4 + 350, 1–2	200, 2–4 + 350, 1–2	200, 2–4 + 350, 1–2	480, 0.75	480, 0.75	480, 0.75	200, 0.5–1 + 480, .75–1	200, 0.5–1 + 480, .75–1	200, 0.5–1 + 480, .75–1	200, 0.25 + 480, 0.25 + 1000, 0.20	200, 10 Min + 1000, 20 Min + 1300, 3 Min
Application Temperature, °F	50–90	50–90	50–90	50–90	50–120	50–120	50–120	50–90	50–90	50–90	50–120	50–90
Thinner	512-N-T	538-N-T	538-N-T	538-N-T	Butyl Cellosolve/ Water	Butyl Cellosolve/ Water	Butyl Cellosolve/ Water	MEK	MEK	MEK	Ethanol	Water
Flash Point, °F/°C	NA	NA	NA	NA	> 212 (100)	> 212 (100)	> 212 (100)	77 (25)	82 (28)	86 (30)	96 (36)	NA
Volatiles, lbs/gal	0.00	0.00	0.00	0.00	0.87	0.98	0.98	2.80	2.28	2.00	3.50	0.00
Shelf Life, months	6	6	6	6	6	6	6	6	6	6	6	6
Storage Temperature, °F	55–85	55–85	55–86	55–86	55–85	55–85	55–85	40–90	40–90	40–90	40–90	40–90

Reference Notes

[1] Viscosity is measured using a Brookfield LV Viscometer.
[2] Estimated Wet Film Thickness (WFT).
[3] Recommended Dry Film Thickness (DFT).
[4] Actual coverage will vary depending on material losses during mixing and application.
[5] Where a value is provided for "Min Air Set", it is recommended that the coating set at room temperature for, at minimum, the specified time prior to curing.

Abbreviations

NA Not Applicable
NR Not Required
DFT Dry Film Thickness
WFT Wet Film Thickness

Surface Preparation Notes

All surfaces should be free of oil, grease, dirt, corrosives, oxides, paints or other foreign matter. No further preparation is required when coating ceramics, refractories or graphites. Quartz should be sandblasted whenever possible. Smooth metal surfaces should be sandblasted or etched using Aremco's Corr-Prep™ CPR2000.

Refer to Price List for complete order information.