

Aremco's Corr-Paint™ protective coatings include the most expansive line of high temperature organic- and ceramic-based products available on the market today for applications to 1300 °F.

PRODUCT HIGHLIGHTS

Corr-Paint™ CP20XX Series

These epoxy and urethane based coatings are used for producing corrosion and wear resistant barriers to 500 °F. Typical applications include tanks, pipelines, boilers, precipitators, scrubbers, bag houses, cyclones, hoppers and other process equipment used in the power, pulp and paper, and chemical processing industries.

Urethanes

One-part, oxidation and wear-resistant coatings for applications to 400 °F.

CP2000 Jet Black
 CP2010 Aluminum
 CP2020 Gray

Epoxies

Two-part, high-build coatings for highly corrosive applications as high as 500 °F.

CP2050-LF Epoxy-phenolic with long glass fibers for strength and reinforcement.
 CP2050-FF Epoxy-phenolic with fine glass fibers for smooth, uniform appearance.
 CP2050-NF Epoxy-phenolic, un-filled system for aggressive acidic conditions.
 CP2060 Novolac-epoxy system with silicon carbide filler.
 CP2070 Novolac-epoxy, low viscosity, gray pigmented system.

Corr-Paint™ CP30XX Series

These inorganic-ceramic, aqueous-based coatings provide outstanding resistance to thermal shock, oxidation and chemical corrosion to 1500 °F. Five basic formulations are available:

CP3000 Ceramic filled coating to 1300 °F.
 CP3015-AL Aluminum-ceramic filled coating to 1400 °F.
 CP3015-BL High emissivity, inorganic black pigmented coating to 1500 °F.
 CP3015-IO Micaceous iron oxide filled, inorganic coating to 1400 °F.
 CP3015-SS Stainless steel filled, inorganic coating to 1500 °F.

These advanced materials are specially formulated to adhere to steel and refractory products used in boilers, furnaces, rotary calciners, kilns, stacks, and other high temperature structures. Benefits include extended equipment life, lower energy costs, and increased throughput.

Corr-Paint™ CP40XX Series

These silicone-based, heat-resistant coatings are formulated using a state-of-the-art, VOC-compliant, water-dispersible silicone resin. CP40XX Series products adhere to metals, ceramics, refractories, and quartz, and offer outstanding resistance to outdoor weathering, UV light, salt spray, chemical corrosion, thermal cycling, and temperatures to 1100 °F. Standard pigments include:

CP4000 Black*	CP4030 Off-White	CP4060 Red	CP4090 Brown
CP4010 Aluminum*	CP4040 White	CP4070 Blue	CP4095 Orange
CP4020 Gray	CP4050 Green	CP4080 Yellow	

Additional colors are available upon request. *Formulations based on solvent-borne high gloss systems are available. Add -S to part number to order solvent-borne coating. Note: Original formulation for Aremco-Coat™567 has been replaced by CP4040-S.

Corr-Paint™ CP5000

CP5000 is a two-part, water-based, inorganic zinc-rich primer which provides superior resistance to salt-fog, immersion, impact and abrasion. This primer system is compatible with all CP-Series products and other organic topcoats. It is used for priming structural steel, marine structures, storage tanks, utility systems, and chemical process equipment and piping.



Chemical Resistance	2050-XX	2060/2070
Acetic Acid	Good	Excellent
Acetone	Good	Good
Jet Fuel	Excellent	Excellent
Alcohol	Excellent	Excellent
Crude Oil	Excellent	Excellent
Diesel	Excellent	Excellent
Gasoline	Excellent	Excellent
HCl (10%)	Excellent	Excellent
HCl (20%)	Good	Good
Heptane	Excellent	Excellent
Kerosene	Excellent	Excellent
MEK	Good	Good
Methylene Chloride	Not Good	Excellent
HNO ₂ (10%)	Excellent	Excellent
HNO ₃ (20%)	Good	Good
Phosphoric Acid	Good-Excellent	Good-Excellent
Potassium Chloride	Excellent	Excellent
Sodium Hydroxide	Excellent	Excellent
Sulfuric Acid	Good-Excellent	Good-Excellent
Toluene	Good	Excellent
Xylene	Excellent	Excellent

HIGH TEMPERATURE PROTECTIVE COATINGS PROPERTIES

Product Number	CP2000	CP2010	CP2020	CP2050-XX ^①	CP2060 ^①	CP2070	CP3000	CP3015-AL	CP3015-BL	CP3015-IO	CP3015-SS
Type	Urethane	Urethane	Urethane	Epoxy-Phenolic	Novolac-Epoxy	Novolac-Epoxy	Inorganic	Inorganic	Inorganic	Inorganic	Inorganic
Color (cured)	Gloss Black	Aluminum	Gloss Gray	Brown	Gray	Gray	Gray	Aluminum	Black	Iron Oxide Gray	Stainless Steel Gray
Temperature Continuous, °F (°C)	400 (204)	400 (204) ^②	400 (204) ^②	400 (204)	500 (260)	300 (150) ^③	1300 (704)	1400 (760)	1500 (816)	1400 (760)	1500 (816)
Solids by Weight, %	67.0	70.0	72.0	100.0	100.0	100.0	71.0	41.3	51.5	52.0	47.0
Solids by Volume, %	49.0	66.0	77.0	100.0	100.0	100.0	54.2	16.6	21.7	23.9	22.6
WFT, mils (microns) ^③	4.0 (101.6)	4.0 (101.6)	4.0 (101.6)	50+ (1270.0)	50+ (1270.0)	7.0 (177.8)	4.0 (101.6)	6.0 (152.4)	5.0 (127.0)	5.0 (127.0)	5.0 (127.0)
DFT, mils (microns) ^④	2.0 (50.8)	2.6 (67.1)	3.1 (78.7)	50+ (1270.0)	50+ (1270.0)	7.0 (177.8)	2.2 (55.9)	1.0 (25.4)	1.9 (48.3)	1.2 (30.5)	1.1 (28.7)
Theoretical Dry Film Coverage ^⑤ @ 1 mil, ft ² /gal, (m ² /liter)	722 (17.7)	1058 (25.9)	1235 (30.3)	1604 (39.3)	1604 (39.3)	1604 (39.3)	870 (21.3)	266 (6.5)	348 (8.5)	383 (9.4)	363 (8.9)
Primer	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Application Temperature, °F	50-90	50-90	50-90	50-90	50-90	50-90	50-90	50-90	50-90	50-90	50-90
Touch, hrs	4-6	4-6	4-6	6-8	4	5	0.5	1-2	1-2	1-2	1-2
Handling, hrs	6-8	6-8	6-8	12-14	6-8	8	1	2-4	2-4	2-4	2-4
Recoat, (min/max), hrs	3/7	6/12	3/7	4/48	4/8	4/8	0.1/NA	1/4	1/4	1/4	1/4
Min Air Set, hrs ^⑥	.5	1	0.5	2	8	8	.5	1	1	1	1
Cure, °F/hrs	RT/24 or 250/1	RT/24 or 250/1	RT/24 or 250/1	RT/48 or 175/4	RT/48 or 250/6	RT/24	200/3	200/2+500/1 ^⑦	200/2+500/1 ^⑦	200/2+500/1 ^⑦	200/2+500/1 ^⑦
No. Components	1	1	1	2	2	2	1	1	1	1	1
Mix Ratio, by weight	NA	NA	NA	1:1	100:8	100:42 (2:1 by volume)	NA	NA	NA	NA	NA
Mixed Viscosity, cps	200-240	300-600	200-500	Paste	Paste	800-1000	1200-1800	250-450	2800-4500	400-1000	500-1000
Thinner	Hi-Flash Naptha	Hi-Flash Naptha	Hi-Flash Naptha	NR	NR	Xylene	CP3000-T	CP3015-T	CP3015-T	CP3015-T	CP3015-T
Specific Gravity, gms/cc	1.05	1.08	1.08	1.6	1.9	1.1	1.70	1.32	1.58	1.57	1.51
Pot Life, hrs at room temp.	NA	NA	NA	.7	.75 (500 gms)	.35 (200 gms)	NA	NA	NA	NA	NA
Flash Point, °F (°C)	140 (60)	140 (60)	140 (60)	>200 (93)	>200 (93)	>200 (93)	NA	0.0	0.0	NA	NA
VOC's, lbs/gal	2.86	3.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shelf Life @ RT, Months	12	12	12	12	12	12	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

Reference Notes

① Technical Notes for Epoxy Coatings	CP2050-XX	CP2060
Hardness, Shore D	86	90
Lap Shear Strength to Aluminum, psi	2,700	2,300
@ 25 °C	1,800	2,000
@ 100 °C	900	1,200
@ 150 °C	300	900
@ 175 °C	13,400	11,500
Flexural Strength, psi	10,300	12,000
Compressive Strength, psi	3	2
Elongation, %		

- ② CP2010 will begin to discolor at 300 °F.
 ③ Estimated Wet Film Thickness (WFT).
 ④ Recommended Dry Film Thickness (DFT).
 ⑤ Actual coverage will vary depending on material losses during mixing and application.
 ⑥ 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.
- ⑦ Curing is recommended but not absolutely required if the system is raised slowly to a minimum of 500 °F within 24-48 hours of application and not exposed to high moisture or rain during this initial dwell period.
 ⑧ Withstands intermittent service temperatures of 350-400 °F if cured for 2 hours at 185 °F.

Abbreviations

NR - Not Required or Recommended
 NA - Not Applicable
 DFT - Dry Film Thickness
 WFT - Wet Film Thickness
 RT - Room Temperature

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. Smooth metal surfaces should be further prepared as follows:
CP20XX - Abrasive blast to an SSPC-SP5 profile or etch surface using Aremco's Corr-Prep™ CPR2000. Apply CPR2000 for a maximum of 10-15 minutes, then rinse with warm water and dry rapidly.
CP30XX - Abrasive blast to an SSPC-SP10, near-white blast (.001" profile). Remove abrasive residue using air pressure — do not clean with organic solvents.

Refer to Price List for complete order information. Aremco Products makes no warranty express or implied concerning the use of this product. The user assumes all risk of use or handling whether or not in accordance with directions or suggestions, or used singly or in combination with other products.

HIGH TEMPERATURE PROTECTIVE COATINGS PROPERTIES

Product Number	CP4000	CP4010	CP4020	CP4030	CP4040	CP4050	CP4060	CP4070	CP4080	CP4090	CP4095	CP5000
Type	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Inorganic
Color (cured)	Flat Black	Silver-Gray	Medium Gray	Off-White	White	Green	Red	Blue	Yellow	Brown	Orange	Gray
Temperature Continuous, °F (°C)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1100 (593)	1000 (538)
Solids by Weight, %	40.5	35.5	56.5	50.0	51.0	62.8	56.8	58.0	57.9	52.5	54.5	55.0
Solids by Volume, %	30.3	33.2	38.5	38.9	49.2	37.5	44.1	39.7	45.7	37.7	38.2	36.4
WFT, mils (microns) ^①	5.0 (127.0)	4.0 (101.6)	5.0 (127.0)	5.0 (127.0)	4.0 (101.6)	5.0 (127.0)	4.0 (101.6)	4.0 (101.6)	4.0 (101.6)	5.0 (127.0)	5.0 (127.0)	4.0 (101.6)
DFT, mils (microns) ^②	1.5 (38.1)	1.5 (38.1)	1.9 (48.6)	1.9 (48.6)	2.0 (50.8)	1.9 (48.3)	1.8 (45.7)	1.6 (40.6)	1.8 (45.7)	1.9 (48.3)	1.9 (48.3)	1.5 (38.1)
Theoretical Dry Film Coverage ^③ @ 1 mil, ft ² /gal, (m ² /liter)	486 (11.9)	533 (13.0)	618 (15.1)	624 (15.3)	789 (19.3)	602 (14.7)	707 (17.3)	637 (151.6)	733 (18.0)	605 (14.8)	613 (15.0)	585 (14.4)
Primer ^⑦	CP5000	NR	CP5000	CP5000	CP5000	CP5000	CP5000	CP5000	CP5000	CP5000	CP5000	NR
Application Temperature, °F	50-120	50-120	50-120	50-120	50-120	50-120	50-120	50-120	50-120	50-120	50-120	50-90
Touch, hrs	1	2	1	1	1	1	1	1	1	1	1	.25
Handling, hrs	2	2	2	2	2	2	2	2	2	2	2	1
Recoat, (min/max), hrs	0.5/NA	2.5/NA	0.5/NA	0.5/NA	0.5/NA	0.5/NA	0.5/NA	0.5/NA	0.5/NA	0.5/NA	0.5/NA	0.1/NA
Min Air Set, hrs ^④	1	1	1	1	1	1	1	1	1	1	1	24
Cure, °F/hrs ^⑤	450/1	450/1	450/1	450/1	450/1	450/1	450/1	450/1	450/1	450/1	450/1	200/2 ^⑥
No. Components	1	1	1	1	1	1	1	1	1	1	1	2
Mix Ratio, by weight	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1:1
Mixed Viscosity, cps	700-1200	700-1400	1000-2000	700-1200	700-1500	1500-3000	4000-6000	1000-3000	1500-2800	600-1000	600-1000	800-1200
Thinner	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Specific Gravity, gms/cc	1.32	1.16	1.63	1.40	1.41	1.75	1.60	1.63	1.63	1.61	1.56	1.60
Pot Life, hrs at room temp.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24
Flash Point, °F (°C)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	>212 (100)	NA
VOC's, lbs/gal	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.00
Shelf Life @ RT, Months	6	6	6	6	6	6	6	6	6	6	6	12
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	55-95

Reference Notes

- ① Estimated Wet Film Thickness (WFT).
- ② Recommended Dry Film Thickness (DFT).
- ③ Actual coverage will vary depending on material losses during mixing and application.
- ④ 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.
- ⑤ Adequate ventilation is required when curing these products. Outgassing will occur above 300 °F and cease after 750 °F. An additional 30 minutes is required at the highest service temperature if service temperature is below 750 °F.
- ⑥ Curing is recommended but not absolutely required if the system is raised slowly to a minimum of 500 °F within 24-48 hours of application and not exposed to high moisture or rain during this initial dwell period.
- ⑦ Primer is only recommended for exterior applications in which salt fog or moisture are present.

Abbreviations

- NR - Not Required or Recommended
- NA - Not Applicable
- DFT - Dry Film Thickness
- WFT - Wet Film Thickness
- RT - Room Temperature

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. Smooth metal surfaces should be further prepared as follows:

CP40XX – Abrasive blast to an SSPC-SP6 profile.

CP5000 – Abrasive blast to an SSPC-SP10, near-white blast. Remove abrasive residue using air pressure — do not clean with organic solvents.

Refer to Price List for complete order information. Arremco Products makes no warranty express or implied concerning the use of this product. The user assumes all risk of use or handling whether or not in accordance with directions or suggestions, or used singly or in combination with other products.

Refer to Price List for complete order information.

Aremco Products makes no warranty express or implied concerning the use of this product.
The user assumes all risk of use or handling whether or not in accordance with directions or suggestions, or used singly or in combination with other products.