



Global Systems Guide

System Reference	Surface area and exposure conditions	Coating System	Surface Preparation	Typical Dry Film Thickness	
				Microns	Mils
STRUCTURAL STEEL ⁽¹⁾					
A-1	Exterior surfaces. Severe corrosive (C5-M/I)	Dimetcote 9 Series	SSPC-SP 10 (Sa 2-1/2)	65 - 100	2.5 - 4
		Amercoat 385 or 383H ⁽²⁾		125 - 150	5 - 6
		Amercoat 450 Series ⁽³⁾		50 - 75	9.5 - 13
				240 - 325	9.5 - 13
A-2		Dimetcote 9 Series	SSPC-SP 10 (Sa 2-1/2)	65 - 100	2.5 - 4
		PSX 700 Series		125 - 150	5 - 6
				200 - 250	7.5 - 10
B1	Exterior surfaces. Corrosive (C4)	Amercoat 68 Series	SSPC-SP 10 (Sa 2-1/2)	50 - 100	2 - 4
		Amercoat 385 or 383H ⁽²⁾		125 - 150	5 - 6
		Amercoat 450 Series ⁽³⁾		50 - 75	2 - 3
				225 - 325	9 - 13
C1	Exterior surfaces. Corrosive (C3)	Amercoat 68 Series	SSPC-SP 10 (Sa 2-1/2)	50 - 100	2 - 4
		Amershield Series		125 - 150	5 - 6
				175 - 250	7 - 10
C2		Amerlock Series	SSPC-SP 10 (Sa 2-1/2)	125 - 150	5 - 6
		Amershield Series		125 - 150	5 - 6
				250 - 300	10 - 12
C3		Amercoat 385 ⁽²⁾	SSPC-SP 10 (Sa 2-1/2)	100 - 125	4 - 5
		Amercoat 385 ⁽²⁾		100 - 125	4 - 5
		Amercoat 450 Series ⁽³⁾		50 - 75	2 - 3
				250 - 325	10 - 13
D1	Interior surfaces. (C2/3)	Amercoat 385 ⁽¹⁾ or Amerlock Series	SSPC-SP 10 (Sa 2-1/2)	125 - 150	5 - 6
		Amercoat 385 ⁽¹⁾ or Amerlock Series		125 - 150	5 - 6
				250 - 300	10 - 12
D2		Amercoat 5105 Series	SSPC-SP 10 (Sa 2-1/2)	50 - 75	2 - 3
		Amercoat 5400 Series		50 - 75	2 - 3
				100 - 150	4 - 6
D3		Amercoat 148	SSPC-SP 10 (Sa 2-1/2)	50 - 75	2 - 3
		Amercoat 220 Series		50 - 75	2 - 3
				100 - 150	4 - 6
E1	Severe abrasion	Amerlock Series	SSPC-SP 10 (Sa 2-1/2)	125 - 150	5 - 6
		Amerlock Series		125 - 150	5 - 6
		Amershield Series		100 - 150	4 - 6
				350 - 450	14 - 18
E2 - Europe		Amercoat 340	SSPC-SP 10 (Sa 2-1/2)	350 - 500	14 - 20
Notes:	<p>(1) Optional is to use first the automatically applied, weldable zinc ethyl silicate shop primer Dimetcote SP Series for temporary protection at 15 - 25 microns.</p> <p>(2) Optional is Amercoat 370 for fast-dry and fast-topcoat option.</p> <p>(3) Optional is Amercoat 229 Series when isocyanate-cured products are not desired.</p>				



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LININGS FOR STEEL STORAGE TANKS					
F-1	Water, caustic and fuel storage	Amercoat 90 Series ⁽¹⁾	SSPC-SP 5 (Sa 3)	125 - 150	5 - 6
		Amercoat 90 Series ⁽¹⁾		125 - 150	5 - 6
				250 - 300	10 - 12
F-2	Caustic and fuel storage. Hot water storage up to 200°F / 93°C.	Amercoat 91 Series ⁽¹⁾	SSPC-SP 5 (Sa 3)	100 - 125	4 - 5
		Amercoat 91 Series ⁽¹⁾		100 - 125	4 - 5
		Amercoat 91 Series ⁽¹⁾		100 - 125	4 - 5
				300 - 375	12 - 15
LINING FOR STEEL COOLING WATER PIPES					
G-1	Cooling water pipe interiors	Amerlock Glass Flake Epoxy Series	SSPC-SP 10 (Sa 2-1/2)	350 - 500	14 - 20
CONTINUOUS OR PREDOMINANTLY IN CONTACT WITH WATER OR SEA WATER					
H-1	Splash zone and seawater immersion	Amerlock Glass Flake Epoxy Series	SSPC-SP 10 (Sa 2-1/2)	500 - 750	20 - 30
INSULATED FERROUS SUBSTRATES AT ELEVATED TEMPERATURES					
J-1	Up to 400°F / 200°C	Amercoat 90 Series ⁽¹⁾	SSPC-SP 10 (Sa 2-1/2)	125 - 150	5 - 6
		Amercoat 90 Series ⁽¹⁾		125 - 150	5 - 6
				250 - 300	10 - 12
J-2	Up to 450°F / 230°C	Amercoat 91 Series w/880 ⁽¹⁾	SSPC-SP 10 (Sa 2-1/2)	125 - 150	5 - 6
		Amercoat 91 Series w/880 ⁽¹⁾		125 - 150	5 - 6
				250 - 300	10 - 12
J-3	390 - 750°F / 200 - 400°C	Amercoat 878 Series	SSPC-SP 10 (Sa 2-1/2)	20 - 25	0.8 - 1
		Amercoat 878 Series		20 - 25	0.8 - 1
				40 - 50	1.6 - 2
COATING FOR BURIED STEEL STRUCTURES AND PIPING					
K-1	Exterior surfaces (ISO 12944-2 Im3)	Amerlock Glass Flake Epoxy Series	SSPC-SP 10 (Sa 2-1/2)	250 - 375	10 - 15
		Amerlock Glass Flake Epoxy Series		250 - 375	10 - 15
				500 - 750	20 - 30
GALVANIZED STEEL					
L-1	Exterior surfaces. Severe corrosive (C5-M/I)	Amercoat 385 Amercoat 450 Series ⁽³⁾	Galvaprep, Amercoat 59, or SSPC-SP7 (SA1)	125 - 150 50 - 75 175 - 225	5 - 6 2 - 3 7 - 9
Notes:	(1) Apply a stripe coat to all sharp corners, sharp edges and weld seams before application of each full coat. (2) Temporary protection during transport and erection. (3) Optional is Amercoat 229 when isocyanate-cured products are not desired.				



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STAINLESS STEEL					
M-1	Exterior surfaces. Severe conditions (C5-M/I)	Amercoat 385 ⁽¹⁾ Amercoat 450 Series ⁽²⁾	SSPC-SP 7 (SA1) (Non-Metallic Media)	125 - 150	5 - 6
				50 - 75	2 - 3
				175 - 225	7 - 9
ALUMINUM					
N-1	Exterior surfaces. Severe conditions (C5-M/I)	Amercoat 385 ⁽¹⁾ Amercoat 450 Series ⁽²⁾	Alumiprep or SSPC-SP 7 (SA1) (Non-Metallic Media)	125 - 150	5 - 6
				50 - 75	2 - 3
				175 - 225	7 - 9
FLOOR COATING -- MEDIUM DUTY					
O-1	Light traffic, medium duty	Amerlock Series Amerlock Series	ASTM D 4259	125 - 150	5 - 6
				125 - 150	5 - 6
				250 - 300	10 - 12
O-2	Light traffic, medium duty, UV-resistant and color-stable	Amerlock Series Amershield Series	ASTM D 4259	125 - 150	5 - 6
				125 - 150	5 - 6
				250 - 300	10 - 12
FLOOR COATING -- HEAVY DUTY					
P-1 Europe	Self-leveling epoxy flooring	Nu-Klad 813B Nu-Klad 807B	ASTM D 4259	Impregnate	
				2.5 - 3 mm	100 - 120
				2.5 - 3 mm	100 - 120
P-2 Americas	Self-leveling epoxy flooring	Amerlock Sealer Nu-Klad 120A	ASTM D 4259	Impregnate	
				2.5 - 3 mm	100 - 120
				2.5 - 3 mm	100 - 120
WALLS, CONCRETE OR PLASTER					
Q-1	Interior rooms and structures	Amercoat 148 Primer Amercoat 220 Series (or 2 coats of Amercoat 220 Series)	ASTM D 4259	50 - 75	2 - 3
				50 - 75	2 - 3
				100 - 150	4 - 6
COMPONENTS WITH ONLY ORIGINAL MANUFACTURER'S FINISH FOR EXTERIOR EXPOSURE					
R-1	Exterior surfaces. Severe conditions (C5-M/I)	Amerlock Series Amerlock Series	Clean and dry	100 - 125	4 - 5
				100 - 125	4 - 5
				200 - 250	8 - 10
R-2	Interior surfaces (C2/3)	Amerlock Series	Clean and dry	100 - 125	4 - 5
FERROUS SUBSTRATES EXPOSED TO ELEVATED TEMPERATURES					
S-1 Europe	Operating temperatures up to 400°F / 200°C	Dimetcote 9 Series Amercoat 891	SSPC-SP 10 (Sa 2-1/2)	50 - 75	2 - 3
				40 - 50	1.5 - 2
				90 - 125	3.5 - 5
S-1 Americas		Dimetcote 9 Series Amercoat 874HS		50 - 75	2 - 3
				40 - 50	1.5 - 2
				90 - 125	3.5 - 5
S-2	Operating temperatures up to 750°F / 400°C	Dimetcote 9 Series Amercoat 741	SSPC-SP 10 (Sa 2-1/2)	50 - 75	2 - 3
				100 - 125	4 - 5
				150 - 200	6 - 8
S-3	Operating temperatures up to 1000°F / 540°C	Amercoat 878 Series Amercoat 878 Series	SSPC-SP 10 (Sa 2-1/2)	20 - 25	0.8 - 1
				20 - 25	0.8 - 1
				40 - 50	1.6 - 2
Notes:	(1) Optional is Amercoat 370 for fast-dry and fast-topcoat option. (2) Optional is Amercoat 229 series when isocyanate-cured products are not desired.				