PPG Protective & Marine Coatings

Global Systems Guide

Petrochem / Refinery / Tank Farm

New Construction Coatings Specifications [1]

System Reference	Surface Area and Conditions	Coating System	Surface Preparation	Typical Dry Film Thickness Microns	Mils
CARBON STEEL					
S-1	Atmospheric Severe Uninsulated Ambient to 200F/93C with peaks to 250F/121C	Dimetcote 9 Series Inorganic Zinc PSX 700 Series Polysiloxane	SSPC-SP10 (Sa 2 1/2)	62.5 - 75 125.0 - 150 187.5 - 225	2.5 - 3 5.0 - 6 7.5 - 9
S-2		Dimetcote 9 Series Inorganic Zinc Amercoat 240 or 385 Hi-build Epoxy Coating Amercoat 450 Series Aliphatic Urethane	SSPC-SP10 (Sa 2 1/2)	62.5 - 75 100.0 - 150 50.0 - 75 212.5 - 300	2.5 - 3 4.0 - 6 2.0 - 3 8.5 - 12
S-3	Atmospheric Moderate Uninsulated Ambient to 200F/93C with peaks to 250F/121C	Amercoat 68 Series Zinc-rich Epoxy Primer Amershield Aliphatic Urethane	SSPC-SP10 (Sa 2 1/2)	75 - 100 125 - 150 200 - 250	3 - 4 5 - 6 8 - 10
S-4		Amerlock 2/400 Series Fast-dry Epoxy Mastic Amerlock 2/400 Series Fast-dry Epoxy Mastic Amercoat 450 Series Aliphathic Urethane	SSPC-SP10 (Sa 2 1/2)	125 - 150 125 - 150 50 - 75 300 - 375	5 - 6 5 - 6 2 - 3 12 - 15
S-5	Atmospheric Mild Uninsulated Ambient to 200F/93C with peaks to 250F/121C	Amerlock 2 Fast-dry Epoxy Mastic Amercoat 450 Series Aliphatic Urethane	SSPC-SP6 (Sa 2) or SSPC-SP3 (ST 3)	100 - 150 50 - 75 150 - 225	4 - 6 2 - 3 6 - 9
S-6	Atmospheric Uninsulated Ambient to 750F/399C	Dimetcote 9 Series Inorganic Zinc Amercoat 878HS Series Silicone Aluminum	SSPC-SP10 (Sa 2 1/2)	62.5 - 75.0 25.0 - 30.0 87.5 - 105.0	2.5 - 3.0 1.0 - 1.2 3.5 - 4.2
S-7	Atmospheric Insulated and Uninsulated 201F/94C to 1000F/538C	Amercoat 878HS Series Silicone Aluminum Amercoat 878HS Series Silicone Aluminum	SSPC-SP10 (Sa 2 1/2)	25 - 30 25 - 30 50 - 60	1 - 1.2 1 - 1.2 2 - 2.4
S-8	Atmospheric Insulated Ambient to 425F/218C	Amerlock GF Epoxy Series	SSPC-SP10 (Sa 2 1/2)	400 - 500 [May be applied in two coats]	16 - 20
UNDERGROUND CARBON STEEL					
S-10	BURIED: Piping, Pilings and Miscellaneous Steel	Amercoat 78 Series Coal Tar Epoxy	SSPC-SP10 (Sa 2 1/2)	400 - 500 [May be applied in two coats]	16 - 20

Notes: (1) The above schemes are offered as a guide to product selection for optimum performance. Exact recommendations and information regarding specific product characteristics, health and safety concerns, and other variations of these typical schemes to suit local conditions will be provided by local PPG representatives.