

SYSTEM SELECTION FOR NUCLEAR POWER PLANTS  
COATING SERVICE LEVELS II, III AND BALANCE OF PLANT

SYSTEM NO.	SURFACE	EXPOSURE	PRODUCT	SURFACE PREPARATION	DFT	NUMBER OF COATS	SYSTEM DFT
S1	Steel	Previously Painted Exterior Non-Immersion	Amerlock 400 Amerlock 400 PSX 700 Series	SSPC SP-2 or SSPC SP-3	4.0-8.0 4.0-8.0 3.0-7.0	Spot Prime 1 1	11.0-23.0
<p><b>Notes For System S1:</b> This high-performance system is designed for the ultimate in gloss and color retention. It can be applied over other high-performance primers and properly prepared finishes, as well as conventional paints, such as alkyds or silicone alkyds. Follow Amercoat overcoating test procedures before overcoating, if aged coatings are not properly recorded and identified. Alternate low stress material such as Amercoat Sealer or a conventional finish such as 95-5000 Sil-Shield may be used depending upon the condition of the substrate and the degree of exposure/performance required.</p>							
S2	Steel	New or Unprimed Exterior Non-Immersion	Amercoat 68HS Amerlock 2 Amershield or PSX 700 Series	Shop: SSPC SP-6  Field: SSPC SP-11	3.0-4.0 4.0-8.0 5.0 3.0-7.0	1 1 1 or 1	With Amershield 12.0 - 17.0 With PSX 700 10.0 - 19.0
<p><b>Notes For System S2:</b> This system is designed for shop application to new steel, or for recoating steel surfaces in the field where total removal of the old coatings is specified, or the existing steel has never been coated.</p>							
S3	Steel	Immersion	Amerlock 2AL	SSPC SP-10	4.0-8.0	2	8.0-16.0
<p><b>Notes For System S3:</b> This system is designed as a brush and roller applied, immersion-grade coating which can also be utilized in exterior, UV exposure. Brush all welds and seams first, and perform pinhole and holiday detection testing on complete system.</p>							
S4	Steel	Lining Material for Tanks, Intake Structures, Etc...	KL3500 Kolor-Poxy Self-Priming Surfacing Enamel	SSPC SP-10	10.0 - 15.0	2	20.0-30.0
<p><b>Notes For System S4:</b> This system is designed as a high-build, spray-applied lining material for salt water, fresh water, No. 6 fuel oil, waste water, industrial effluent, etc... For potable water tank linings, use Amercoat 133, National Sanitation Foundation approved (NSF) per specification (do not exceed 6.0 mils DFT per coat).</p>							
S5	Steel	High Temperature	Dimetcote 9 Amercoat 878 OR Amercoat 741	SSPC SP10	2.0-3.0 1.0-1.5  3.0-8.0	1 1  1	3.0-4.5 OR 5.0-11.0
<p><b>Notes For System S5:</b> This system is designed as a primer/finish on properly prepared bare steel. Use Amercoat 878 for temperature resistance up to 750°F and Amercoat 741 for resistance up to 1000°F.</p>							



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S6	Steel	Interior: Doors, Frames, Equipment, Structural Steel, etc...	KL6040 Tri-Polar Primer	SSPC SP-2	2.5-3.5	Spot Prime	4.0-6.0
			KL1-Series Kolor-Sil Enamel	SSPC SP-3	1.5-2.5	1	
<b>Notes For System S6:</b> This system is designed as a user friendly, compatible, brush and roll system with excellent performance in most areas. For higher performance against abrasion, chemical resistance, etc., use alternate Amerlock 400 and Amershield. For unprimed steel, apply one (1) full coat of KL6040.							
S7	Steel	Exterior Substation Equipment	6-208 or 6-212	SSPC SP-2	2.0-3.0	1	3.5-5.5
			95-5000 Sil-Shield	SSPC SP-3	1.5-2.5	1	
<b>Notes For System S7:</b> This system is designed as a brush, roll, spray, or flow-coated system to maximize the life of substation transformers, breakers, circuit breakers, switch gear, regulators, etc. Recoat weathered galvanized structures with KL4400 Series Anodic Self-Priming Paint @ 8.0-10.0 mils DFT. KL4400 Series is applied by brush or paint mitt in one coat.							
S8	Steel	Interior	Dimetcote 9	SSPC SP-6*	2.5	1	6.5-10.5
			Amerlock 2/400	Or SSPC SP-10*	4.0-8.0	1	
<b>Notes For System S8:</b> For non-immersion service: *SSPC SP-6 is minimum, depending on service conditions.							
G1	New Galvanized Steel	Interior/Exterior	97-687	SSPC SP-10	0.3-0.5	1	7.3 - 15.5
			Amerlock 2/400		4.0-8.0	1	
			Amershield or		5.0	1 or	
<b>Notes For System G1:</b> New galvanized steel can also be mechanically cleaned, or prepared using GalvaPrep as an alternative to using 97-687 Wash Primer. Most generic types can be applied over the 97-687.							
G2	Weathered Galvanized Steel	Interior/Exterior (Heavy oxidation)	Amerlock 400	SSPC SP-1	4.0-8.0	1	4.0-8.0
			or Amerlock 2AL	SSPC SP-2	4.0-8.0	1	
<b>Notes For System G2:</b> These two systems are one-coat options over galvanized surfaces.							



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C1	Concrete	Interior Walls Bare or Previously Coated	Amercoat 114A Amerlock 2/400 Amershield	SSPC SP-2 SSPC SP-1	Flush Coat 4.0-8.0 5.0	1 1 1	9.0-13.0 (Above concrete surface)
<b>Notes For System C1:</b> Use this system for to fill holes, voids and surface discontinuities in formed concrete or concrete block.							
C2	Concrete	Exterior Walls/Floors	Amerlock 2/400 Amershield or PSX 700 Series	SSPC SP-3 using #60-80 grit sandpaper	4.0-8.0 5.0 or 3.0-7.0	1 1 or 1	7.0-15.0
<b>Notes For System C2:</b> This system is designed for exterior concrete, which may be coated down to grade, and must match colors on existing siding of buildings. Where moisture is not a concern, other finish coats may be used.							
C3	Concrete	Interior, Previously Painted Floors	Amerlock 2/400 Amershield or PSX 700 Series	Sandscreen or Power Sanding	4.0-8.0 5.0 or 3.0-7.0	1 1 or 1	7.0-15.0
<b>Notes For System C3:</b> This system is designed for areas which have been coated, and the existing system is in good condition.							
C4	Concrete	Interior Floors	KL5129 Primer/Sealer KL5500 Self-Leveling KL5500 Self-Leveling	Track Blast	2.0-4.0 15* 40.0-50.0	1 Flush Coat 1	57.0-69.0
<b>Notes For System C4:</b> This system is designed to be applied over properly profiled and cleaned concrete floors, which have been checked for moisture. If moisture vapor is a problem, a thin-film breathable coating may be more appropriate. *Average DFT for normal Track Blasted floors.							
C5	Concrete Floors	Interior Floors	Amerlock Sealer Megaseal HDSL Amershield	Acid Etch or Track Blast	2.0-4.0 0.0-175.0 5.0	1 Flush Coat 1	47.0-184.0
<b>Notes For System C5:</b> This system is designed as a lower cost per square foot flooring system than C4 above. The higher mils recommended on the flush coat take into account holes and various discontinuities in the floor surface. Maximum depth of any single hole should not exceed 175.0 mils.							