

## System Guide for Water and Wastewater Treatment (Coatings)

New Construction / Maintenance	Surface Preparation (SSPC)	1 <sup>st</sup> Coat	Mils (Microns)	2 <sup>nd</sup> Coat	Mils (Microns)	3 <sup>rd</sup> Coat	Mils (Microns)
<b>Potable Water Tanks – Steel</b>				<b>Applications</b> Linings (NSF) for the interior of potable water storage tanks. Including sealants for precast concrete tanks.			
New or Maintenance	SP-10	Carboguard 561 (Shop Primer) Epoxy	4-6 (100-150)	Carboguard 561 or Carboguard 561 LT Epoxy	4-6 (100-150)	Carboguard 561 or Carboguard 561 LT Epoxy	4-6 (100-150)
New or Maintenance	SP-10	Carboguard 891 Epoxy	4-6 (100-150)	Carboguard 891 Epoxy	4-6 (100-150)	Carboguard 891 Epoxy	4-6 (100-150)
New or Maintenance (Single Coat)	SP-10	<i>Holding Primers May be Required for Shop &amp; Field Applications</i>		Polibrid 705 Elastomeric Polyurethane	25-30 (625-750)		
New or Maintenance (Single Coat)	SP-10	<i>Holding Primers May be Required for Shop &amp; Field Applications</i>		Plasite 140S or Plasite 4500 100% Solids Epoxy	20-40 (500-1000)		
New or Maintenance (Single Coat)	SP-10	<i>Holding Primers May be Required for Shop &amp; Field Applications</i>		Carboguard 691 High Solids Epoxy	12-15 mils (300-375)		
<b>Potable Water Tanks – Steel</b>				<b>Applications</b> Coatings for the exterior of potable water storage tanks			
New / Recoat	SP-10, 6	Carbozinc 859 Organic Zinc	3-5 (75-125)	Carboxane 2000 Mod. Siloxane Hybrid	3-7 (75-175)		
New / Recoat	SP-10, 6	Carbozinc 859 Organic Zinc	3-5 (75-125)	Carbothane Series Polyurethane	3-5 (75-125)		
New / Recoat	SP-10, 6	Carbozinc 859 Organic Zinc	3-5 (75-125)	Carboguard 600/800 Series Epoxy	4-6 (100-150)	Carbothane Series Polyurethane	2-2 ½ (50-62)
New / Recoat	SP-10, 6	Carboguard 561 or Carboguard 600/800 Series Epoxy	4-6 (100-150)	Carboguard 561 or Carboguard 600/800 Series Epoxy	4-6 (100-150)	Carbothane Series Polyurethane	2-2 ½ (50-62)
Overcoat	SP-2, 3, 12	Rustbond or Rustbond FC (Penetrating Sealer Epoxy)	1-2 (25-50)	Carboxane 2000 Mod. Siloxane Hybrid	3-7 (75-175)		
Overcoat	SP-2, 3, 12	Rustbond or Rustbond FC (Penetrating Sealer Epoxy)	1-2 (25-50)	Carbomastic 15 or Carbomastic 615 HS (spot prime) Surface Tolerant Epoxy	4-6 (100-150)	Carbothane 133 Series or Carbothane 134 Series Polyurethane	3-5 (75-125)
Overcoat	SP-2, 3, 12	Rustbond or Rustbond FC (Penetrating Sealer Epoxy)	1-2 (25-50)	Carboguard 561 or Carboguard 893 Epoxy	4-6 (100-150)	Carbothane 134 Series Polyurethane (Gloss)	2-2 ½ (50-62)
Overcoat	SP-2, 3, 12	Carbomastic 15 or Carbomastic 615 HS (spot prime) Surface Tolerant Epoxy	4-6 (100-150)	Carbocrylic 3359 DTM Acrylic Dryfall	3-5 (75-125)	Carbocrylic 3359 DTM Acrylic Dryfall	3-5 (75-125)

New Construction / Maintenance	Surface Preparation (SSPC)	1 <sup>st</sup> Coat	Mils (Microns)	2 <sup>nd</sup> Coat	Mils (Microns)	3 <sup>rd</sup> Coat	Mils (Microns)
<b>Water Storage Tanks – Concrete</b>				<b>Applications</b> <i>Linings for the interior of potable &amp; non-potable storage tanks. Including sealants for precast concrete tanks.</i>			
New or Maintenance	ASTM D- 4259	For damp concrete consult Technical Service	3-4 (75-100)	Polibrid 705 Elastomeric Polyurethane	40-70 (1000-1750)		
New or Maintenance	ASTM D- 4259			Plasite 140s 100% Solids Epoxy	30-60 (750-1500)		
New or Maintenance	ASTM D- 4259	Sanitile 600 Epoxy Filler / Sealer	As Required	Plasite 140s 100% Solids Epoxy	30-60 (750-1500)		
<b>Water Storage Tanks – Concrete</b>				<b>Applications</b> <i>Coatings for the exterior of water storage tanks</i>			
New or Maintenance	ASTM D- 4259	Carboguard 954 HB Epoxy	10-15 (250-375)	Carboguard 954 HB Epoxy	10-15 (250-375)	Carbothane 133 HB Polyurethane	3-5 (75-125)
New or Maintenance	ASTM D- 4259	Sanitile 100 Waterborne Acrylic Block Filler	As Required	Carbothane 133 HB Polyurethane	3-5 (75-125)		
Overcoat	ASTM D- 4259	Sanitile 100 Waterborne Acrylic Block Filler	As Required	Carboguard 800 Series Epoxy	4-6 (100-150)	Carbothane 134 Series Polyurethane	2-2 ½ (50-62)
<b>Support Applications – Concrete &amp; Steel</b>				<b>Applications</b> <i>Riser pipes, O.D. piping, pumps and valves</i>			
New	SP-10	Carbozinc 859 Organic Zinc	3-5 (75-125)	Carboguard 800 Series Epoxy	4-6 (100-150)	Carbothane 134 Series Polyurethane	2-2 ½ (50-62)
New	SP-10	Carbozinc 859 Organic Zinc	3-5 (75-125)	Carbothane 133 HB Polyurethane	3-5 (75-125)	Carbothane Clear Coat Polyurethane	1-2 (25-50)
New or Maintenance	SP-2, 3, 10	Carboguard 890 Epoxy	4-6 (100-150)	Carboguard 890 Epoxy	4-6 (100-150)		
New or Maintenance	SP-2, 3, 10 ASTM D 4259	Bitumastic 300 M Coal Tar Epoxy	8-10 (200-250)	Bitumastic 300 M Coal Tar Epoxy	8-10 (200-250)		
Maintenance	SP-2, 3	Carbomastic 15 or Carbomastic 615 HS (spot or full prime) Surface Tolerant Epoxy	4-6 (100-150)	Carboguard 890 Epoxy	4-6 (100-150)		
Maintenance	SP-2, 3	Carbomastic 15 or Carbomastic 615 HS (spot or full prime) Surface Tolerant Epoxy	4-6 (100-150)	Carboguard 800 Series Epoxy	4-6 (100-150)	Carbothane 134 Series Polyurethane	2-2 ½ (50-62)
<b>Exterior Weathering – Steel</b>				<b>Applications</b> <i>Coatings for sand filters, rake arms, piping, structural steel, tanks</i>			
New or Maintenance	SP-10	Carbozinc Series Zinc Primer	2 (50)	Carboguard 800 Series Epoxy	4-6 (100-150)	Carbothane 134 series Polyurethane	2-3 (50-75)
New or Maintenance	SP-6	Carbomastic 615 HS Surface Tolerant Epoxy	5-7 (125-175)	Carbothane 133 HB Polyurethane	3-5 (75-125)		
New or Maintenance	SP-6	Carbomastic 615 HS Surface Tolerant Epoxy	5-7 (125-175)	Carboguard 890 Epoxy	4-6 (100-150)		
Overcoat	SP-2, 3, 12	Cabocrylic 3359 DTM Acrylic Dryfall	3-7 (75-175)	Carbocrylic 3359 DTM Acrylic Dryfall	3-7 (75-175)		

New Construction / Maintenance	Surface Preparation (SSPC)	1 <sup>st</sup> Coat	Mils (Microns)	2 <sup>nd</sup> Coat	Mils (Microns)	3 <sup>rd</sup> Coat	Mils (Microns)
<b>Interior Environment – Steel</b>				<b>Applications</b> <i>Structural steel, equipment, pumps, motors, piping, tanks, storage &amp; warehouse areas, and other miscellaneous steel</i>			
New	SP-6	Carbozinc 859 <i>Organic Zinc</i>	2-3 (50-75)	Carboguard 800 Series <i>Epoxy</i>	4-6 (100-150)	Carboguard 890 <i>Epoxy</i>	4-6 (100-150)
New or Maintenance	SP-6 SP-2, 3, 12	Carboguard 800 Series <i>Epoxy</i>	4-6 (100-150)	Carboguard 890 <i>Epoxy</i>	4-6 (100-150)		
Maintenance	SP-2, 3, 12	Carbomastic 15 or Carbomastic 615 HS <i>Surface Tolerant Epoxy</i>	5-7 (125-175)	Carbocrylic 3359 DTM <i>Acrylic Dryfall</i>	3-7 (75-175)		
<b>Caustic or Acid Exposures – Steel</b>				<b>Applications</b> <i>Structural steel, equipment, pumps, motors, piping, tanks, misc. steel</i>			
New or Maintenance	SP-10	Phenoline 1205 <i>Epoxy Novolac</i>	15-35 (375-875)				
<b>Under Insulation to 425 F / 218 C – Steel</b>				<b>Applications</b> <i>Piping, structural steel under insulation</i>			
New or Maintenance	SP-10	Thermaline 450 <i>Epoxy Novolac</i>	8-12 (200-300)				
<b>Below Grade, Wet Soil – Steel</b>				<b>Applications</b> <i>Buried pipe, tanks, vessels</i>			
New or Maintenance	SP-10	Bitumastic 300 M <i>Coal Tar Epoxy</i>	8-10 (200-250)	Bitumastic 300 M <i>Coal Tar Epoxy</i>	8-10 (200-250)		
<b>High Temperature Exposures – Steel</b>				<b>Applications</b> <i>Incinerators, furnaces, rotary kilns, fluidizing beds</i>			
< 500F / 260C	SP-10	Carbozinc 11 Series <i>Inorganic Zinc</i>	2-3 (50-75)	Thermaline 4900 R <i>Silicone Acrylic</i>	1.5-2 (100-150)		
< 1000F / 538C	SP-10	Carbozinc 11 Series <i>Inorganic Zinc</i>	2-3 (50-75)	Thermaline 4700 <i>Silicone</i>	1.5-2 (100-150)		
<b>Fireproofing – Steel</b>				<b>Applications</b> <i>Structural steel, tower skirts, pipe racks, building, etc.</i>			
Intumescent	SP-6	Prime Per Manufacturer Instructions	3-5 (75-125)	Nullifire S605 <i>Intumescent Fireproofing</i>	As Required	Carbothane Series <i>Polyurethane</i>	2-3 (50-75)
Cementitious	SP-6	Prime Per Manufacturer Instructions	2-3 (50-75)	Pyrocrete 240HY or 241 <i>Cementitious</i>	As Required	See data sheet for <i>specific products</i>	As Required

Notes:

1. Products that meet NSF Standard 61 for potable water service.
  - Polibrid 705: 100% Solids Elastomeric Polyurethane
  - Carboguard 561: 58% Solids Epoxy Polyamide
  - Carboguard 891: 75% Solids Cycloaliphatic Amine Epoxy
  - Carboguard 691: High Solids Surface & Moisture Tolerant Epoxy
  - Plasite 9133: 86% Solids Epoxy Polyamine
  - Plasite 140s: 100% Solids Epoxy (Single Coat)
  - Plasite 4110: Vinyl Ester
  - Plasite 4006: Vinyl Ester
2. Carbozinc 11 Series consists of four inorganic zinc products designed to meet every need:
  - Carboweld 11 WB: Water Borne Inorganic zinc silicate. A weldable primer for use as a pre-construction / shop primer.
  - Carbozinc 11: Standard high performance inorganic zinc silicate.
  - Carbozinc 11 VOC: High performance inorganic zinc silicate designed to meet local VOC limits of 3.2 lbs./gal. (389 g/l)
  - Carbozinc 11 HS: High performance inorganic zinc silicate designed to meet local VOC limits of 2.4 lbs./gal. (288 g/l)
  - Carbozinc 11 FG: An economical inorganic zinc silicate designed for easy application.
3. Carboguard 800 Series Epoxies are designed to meet your needs:
  - Carboguard 893: High solids epoxy primer or intermediate that provides excellent corrosion protection.
  - Carboguard 893 SG: Economical epoxy primer / intermediate that provides excellent corrosion protection with an extended re-coat window.
  - Carboguard 888: Low temperature cure epoxy that provides excellent corrosion protection with an extended re-coat window.
  - Carboguard 890: High solids epoxy providing excellent corrosion protection as a primer, intermediate, or topcoat.
  - Carboguard 890 LT: Low temperature cure, high solids epoxy providing excellent corrosion protection as a primer, intermediate, or topcoat.
4. Carbothane Series (Polyurethane) include a choice of two polyurethane topcoats to meet your needs:
  - Carbothane 134 HB: Fast Cure, High Gloss, High Solids meeting the requirements of SSPC Paint 36 Level 1.
  - Carbothane 134 HG: Superior performance polyurethane exceeding the requirements of SSPC Paint 36 Level 3.
  - Carbothane 133 HB: High build, low sheen, chemical resistant polyurethane that comes in a satin finish.
  - Carbothane 133 and 134 both have VOC versions where required.
5. Potable water coating systems can be applied in two (2) or three (3) coats, depending on the service conditions. There are three systems listed for single coat applications.
6. Thermaline 4900 VOC and Thermaline 4700 VOC may be substituted for Thermaline 4900R and Thermaline 4700, respectively, as local VOC regulations dictate.
7. Carboguard 890 may be used as an epoxy topcoat in lieu of polyurethane where additional corrosion protection is more critical than appearance.
8. Rustbond penetrating sealer may be used as a primer/sealer overcoat over existing, aged paints (with appropriate topcoats)
9. Carbozinc 859 can provide superior performance as a maintenance primer. Please consult your Carboline Sales Representative to discuss your specific application.
10. In maintenance painting, some coats may be eliminated depending on the condition of the existing paint system. Please consult your Carboline Sales Representative.
11. Carbomasitc 15 and Carbomastic 15 FC can be substituted for Carbomastic 615 HS. Please consult your local representative.
12. The application technique of stripe coating edges and weld lines will improve coating system performance.
13. Carboxane 2000 may be used in lieu of Carbothane 133 HB or 134 Series when an ultra-durable performance topcoat is desired.
14. The Cabocrylic 3359DTM is a high build, direct to metal acrylic terpolymer that exhibits 10' dry fall properties.
15. Where surface preparation designations of SSPC SP 10, SP 6, SP 7, SP 3, and SP 2 are used the ISO designations of Sa 2 ½, Sa 2, Sa 1, St 3, and St 2 (respectively) are also applicable.
16. The Semstone 140 and 145 are available in a cold temperature version. Both can be applied as a neat resin, aggregate filled, or with a scrim cloth for reinforcement. The Semstone 140 is also known as Plasite 4500 and Semstone 145 is also known as Plasite 4550.

# System Guide for Water and Wastewater Treatment (Linings)

Substrate	Surface Preparation	1 <sup>st</sup> Coat	Mils (Microns)	2 <sup>nd</sup> Coat	Mils (Microns)	Total DFT Mils (Mic)
<b>Collection – Concrete, Steel &amp; Brick</b> Immersion Service <span style="float: right;"><b>Applications</b> <i>Manholes, lift stations, large ID piping, sewer interceptors</i></span>						
Concrete & Brick	(A)	(B)	(C)	Plasite 5371 <i>Epoxy Mortar</i>	125 (3125)	125 (3125)
Concrete / Steel	(A) / (D)	Carboguard 671 <i>Epoxy Primer</i>	3-4 (75-100)	Polibrid 705 <i>Elastomeric Polyurethane</i>	25-80 (625-2000)	25-80 (625-2000)
Concrete / Steel	(A) / (D)	(B)	(C)	Plasite 4500 or 4550 <i>Epoxy / Epoxy Novolac</i>	40-100 (1000-2500)	(E)
Steel	(D)	Plasite 7122 HAR <i>Epoxy</i>	6-7 (150-175)	Plasite 7122 HAR <i>Epoxy</i>	6-7 (150-175)	12-14 (300-350)
<b>Primary Treatment - Concrete &amp; Steel</b> Immersion Service <span style="float: right;"><b>Applications</b> <i>Bar screens, clarifiers &amp; rakes, mixers, wet wells, head boxes, equalization basins, digesters, neutralization basins</i></span>						
Concrete	(A)	(B)	(C)	Plasite 5371 <i>Epoxy Mortar</i>	125 (3125)	125 (3125)
Concrete / Steel	(A) / (D)	Bitumastic 300 M <i>Coal Tar Epoxy</i>	8-10 (200-250)	Bitumastic 300 M <i>Coal Tar Epoxy</i>	8-10 (200-250)	16-20 (400-500)
Concrete / Steel	(A) / (D)	(B)	(C)	Plasite 4500 or 4550 <i>Epoxy / Epoxy Novolac</i>	40-100 (1000-2500)	(E)
Concrete / Steel	(A) / (D)	Carboguard 671 <i>Epoxy Primer</i>	3-4 (75-100)	Polibrid 705 <i>Elastomeric Polyurethane</i>	25-80 (625-2000)	25-80 (625-2000)
Steel	(D)	Plasite 9122 <i>Epoxy Phenolic</i>	5-7 (125-375)	Plasite 9122 <i>Epoxy Phenolic</i>	5-7 (125-375)	10-15 (250-375)
Steel	(D)	Plasite 4300 <i>Vinyl Ester</i>	20 (500)	Plasite 4300 <i>Vinyl Ester</i>	20 (500)	35-45 (875-1125)
<b>Secondary Treatment – Concrete &amp; Steel</b> Immersion Service <span style="float: right;"><b>Applications</b> <i>Aeration tanks, sludge digesters, sludge settling tanks, weirs, secondary clarifiers</i></span>						
Concrete	(A)	(B)	(C)	Plasite 5371 <i>Epoxy Mortar</i>	125 (3125)	125 (3125)
Concrete / Steel	(A) / (D)	Carboguard 671 <i>Epoxy Primer</i>	3-4 (75-100)	Polibrid 705 <i>Elastomeric Polyurethane</i>	25-80 (625-2000)	25-80 (625-2000)
Concrete / Steel	(A) / (D)	(B)	(C)	Plasite 4500 or 4550 <i>Epoxy / Epoxy Novolac</i>	40-100 (1000-2500)	(E)
Concrete / Steel	(A) / (D)	Plasite 4006 <i>Epoxy Novolac (NSF)</i>	15-20 (375-500)	Plasite 4006 <i>Epoxy Novolac (NSF)</i>	15-20 (375-100)	30-40 (700-1000)
Steel	(D)	Plasite 4300 <i>Vinyl Ester</i>	20 (500)	Plasite 4300 <i>Vinyl Ester</i>	20 (500)	35-40 (875-1125)
Steel	(D)	Plasite 7122 HAR <i>Epoxy Phenolic</i>	6-8 (150-200)	Plasite 7122 HAR <i>Epoxy Phenolic</i>	6-8 (150-200)	(12-16) (300 – 400)

Substrate	Surface Preparation	1 <sup>st</sup> Coat	Mils (Microns)	2 <sup>nd</sup> Coat	Mils (Microns)	Total DFT Mils (Mic)
<b>Advanced Treatment – Concrete &amp; Steel</b> Immersion Service			<b>Applications</b> Carbon filters, sand filters, chlorination basins, settling basins, flocculators, mixing basins, flumes, clarifiers, desalination cells			
Concrete	(A)	(B)	(C)	Plasite 5371 Epoxy Mortar	125 (3125)	125 (3125)
Concrete	(A)	Semstone 8084 Vinyl Ester Primer	8-10 (200-250)	Semstone 884 Vinyl Ester	40-120 (1000-2500)	50-130 (3000-3250)
Concrete & Steel	(A) / (D)	Carboguard 671 Epoxy Primer	3-4 (75-100)	Polibrid 705 Elastomeric Polyurethane	25-80 (625-2000)	25-80 (625-2000)
Concrete & Steel	(A) / (D)	(B)	(C)	Plasite 4500 or 4550 Epoxy / Epoxy Novolac	40-100 (1000-2500)	(E)
Steel	(D)	Plasite 9133 Epoxy (NSF)	5-6 (125-150)	Plasite 9133 Epoxy (NSF)	5-6 (125-150)	10-12 (250-300)
Steel	(D)	Plasite 4110 Vinyl Ester (NSF)	20 (500)	Plasite 4110 Vinyl Ester (NSF)	20 (500)	35-45 (875-1125)
Steel	(D)	Plasite 7159 Epoxy	5-6 (125-150)	Plasite 7159 Epoxy	5-6 (125-150)	10-12 (250-300)
<b>Water Storage – Concrete, Earthen and Asphalt</b> Immersion Service			<b>Applications</b> Reservoirs, bulk tank farms (potable water)			
Concrete	(A)	Consult Technical Service for Concrete Primer	As Required	Polibrid 705 Elastomeric Polyurethane	80 (2000)	85 (2125)
Others	(F)	Polibrid 706 Polyurethane (Geotextile)	100 125 (2500- 3125)			100 125 (2500-3125)
<b>Chemical Storage – Steel</b> Immersion Service			<b>Applications</b> Chemical storage tanks Consult your local representative to review recommendation			
Sulfuric Acid (93-98%)	(D)	Plasite 3070 Baked Phenolic	1.5-2 (37-50)	Plasite 3070 Baked Phenolic	1.5-2 (37-50)	5-7 (125-175)
Polymers	(D)	Plasite 7122 Epoxy Phenolic	5-7 (125-375)	Plasite 7122 Epoxy Phenolic	5-7 (125-375)	10-15 (250-375)
Demineralized Distilled & DI Water To 230F	(D)	Plasite 9052 Epoxy Phenolic	6-7 (150-175)	Plasite 9052 Epoxy Phenolic	6-7 (150-175)	12-15 (300-375)
Sulfuric (5- 10%) Sodium Bi Sulfite	(D)	Plasite 4100 / 4110 Vinyl Ester	20 (500)	Plasite 4100 / 4110 Vinyl Ester	20 (500)	35-45 (875-1125)
Ferric Chloride Sodium Hypo. Alum	(D)	Plasite 4300 / 4310 Vinyl Ester	20 (500)	Plasite 4300 / 4310 Vinyl Ester	20 (500)	35-45 (875-1125)
Caustic @ 50% To 150F	(D)	Plasite 9052 High Solids Epoxy	6-7 (150-175)	Plasite 9052 High Solids Epoxy	6-7 (150-175)	12-15 (300-375)
Sodium Hydroxide To 500 ppm	(D)	Plasite 9081 Epoxy	6-7 (150-175)	Plasite 9081 Epoxy	6-7 (150-175)	12-15 (300-375)

Substrate	Surface Preparation	1 <sup>st</sup> Coat	Mils (Microns)	2 <sup>nd</sup> Coat	Mils (Microns)	Total DFT Mils (Mic)
<b>Complementary Products - Concrete</b>			<b>Applications</b> Tank pads, pump pads, grouts and patching mortar, form voids and bug hole fillers, sealants			
Concrete Filler & Patching Material	(A)	Carboguard 501 or 510 Sanitile 600 Epoxy	(C)			(C)
Concrete Filler & Patching Material	(A)	Semstone 110 Epoxy Primer	7-9 (175-225)	Semstone 305 Epoxy Novolac	(C)	> 2.0"
Concrete Fill & Patching Material	(A)	800 Series Primer Vinyl Ester	3-4 (75-100)	Semstone 884 Vinyl Ester	(C)	> 2.0"
Concrete Grout & Repitching Mortar	(A)	Semstone 110 Epoxy Primer	3-4 (75-100)	Semstone 5400 Epoxy	(C)	> .25"
Concrete Grout & Repitching Mortar	(A)	800 Series Primer Vinyl Ester	3-4 (75-100)	Semstone 5406 Vinyl Ester	(C)	> .25"
Concrete Sealant	(F)	Semstone 110 Epoxy Primer	7-9 (175-225)	Semstone 805 Rubberized Epoxy	(G)	(G)
Concrete Sealant	(F)	Semstone 110 Epoxy Primer	7-9 (175-225)	Semstone 806 Epoxy Novolac	(G)	(G)
Concrete Sealant	(F)	Semstone 5100 Flouorelastomer	10 (250)			10 (250)
Concrete Sealant	(F)	Semstone 6325 Polyurethane Sealant	(G)			(G)

**Notes:**

- (A) Proper preparation is critical to insure an adequate bond. The substrate must be dry and free of wax, grease, oils, soil, loose or foreign materials and laitance. Laitance and unbonded particles must be removed by abrasive blasting or scarifying.
  - (B) Concrete surfaces may require filling, sealing or repair to eliminate surface imperfections, voids, bug holes prior to application of the coating system. Either a Semstone primer, Carboguard 501 / 510 or Sanitile 600 maybe required for concrete substrates.
  - (C) Exact thickness depends on the extent of patching or repair work necessary.
  - (D) Surface shall be abrasive blasted to either an SSPC-SP5 or SP10 depending on service conditions.
  - (E) Thickness of coating system depends upon traffic conditions, chemical exposure and thermal shock/cycling conditions of the area to be coated. Material can be applied as a neat resin, aggregate filled, or with a fiberglass scrim cloth.
  - (F) For recommendations regarding substrate preparation, please contact Carboline Technical Service Department.
  - (G) Recommended thickness of sealant varies, depending on how it is to be employed in a expansion joint, crack isolation, tank perimeter etc., on a given project. Consult Carboline Technical Service.
- \* The Plasite 4300, 4100, 4006 and Plasite 7159 are available in abrasion resistant versions and the Plasite 4500/4550 series can be applied as a neat resin, spray or trowel applied or applied with fiberglass reinforcement, depending on the service requirements.
- \* The Plasite 4500 is also known as Semstone 140 and Plasite 4550 is also known as Semstone 145.