Rail Product Data Summary

PPG Protective & Marine Coatings

Bringing innovation to the surface.™

Rail Product Data Summary

Exterior Coatings – Alkyds

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® 5105	Alkyd primer	Corrosion-resistant alkyd primer	60	2 - 3 mils	962 @ 1 mil	1	—	—	—	24 hrs	2.33	0.11
Amercoat® 5450	Alkyd gloss topcoat	Topcoat designed to protect and enhance the appearance of railcar exteriors.	48	1.5 - 2.5 mils	385 @ 2 mils	1	—	—	—	24 hrs	3.34	0.14

Exterior Coatings – Epoxies

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® 385/385PA	Multi-purpose epoxy	High-solids epoxy which provides a barrier coat with excellent adhesion. Typically used as a DTM epoxy for exteriors or interiors of boxcars. The hard, abrasion-resistant finish reduces damage to cargoes such as paper rolls. *Amercoat* 385PA is typically used as an inhibitive primer for a variety of topcoats.	68	4 - 8 mils	272 @ 4 mils	2	1R : 1C	3 hrs	10 hrs	16 hrs	2.6	0.11
Amercoat® 399	Fast-drying epoxy	High performance corrosion-resistant coating for new and existing equipment. Typical uses include DTM exterior coating for tank and hopper cars and other rail equipment.	83	4 - 8 mils	266 @ 5 mils	2	1R : 1C	1 hr	2 hrs	4.5 hrs	1.5	0.9
Amercoat® 495	Solvent-free multi-purpose epoxy	DTM high performance coating for new and existing equipment. Typical uses include DTM exterior coating for tank and hopper cars and other rail equipment.	100	4 - 8 mils	321 @ 5 mils	2	1R : 1C	0.5 hr	3 hrs	8 hrs	0.09	HAPS Free
Amerlock® 2	Fast-drying, surface-tolerant maintenance epoxy	Fast-dry, corrosion-resistant, high-solid, semi-gloss, surface-tolerant, maintenance epoxy. Excellent lining for hopper cars such as salt, fertilizer and potash. Can also be used as a tank lining for service such as clay slurry.	85	4 - 8 mils	273 @ 5 mils	2	1R : 1C	1 hr	3 hrs	5 hrs	1.5	0.94
Amerlock® 2 Aluminum	Fast-drying, surface-tolerant maintenance epoxy	Fast-dry epoxy coating for galvanized steel which also acts as a corrosion-resistant, high-solid, semi-gloss, surface-tolerant, maintenance epoxy. Excellent for tops of boxcars and auto racks.	88	4 - 8 mils	235 @ 6 mils	2	1R : 1C	0.75 hr	3.5 hrs	7 hrs	1	0.48

Exterior Coatings – Direct to Metal Urethane

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Durethane® DTM 95-3300	DTM urethane	DTM urethane for exteriors that offers excellent adhesion, gloss & color retention, as well as flexibility.	65	3 - 5 mils	261 @ 4 mils	2	5R : 1C	3 hrs	4 hrs	9 hrs	2	HAPS Free
Amershield™	High-build polyester-acrylic aliphatic polyurethane	Low VOC, high-gloss rail car exterior and hopper lining. High-solids, gloss-retentive finish coat with excellent impact and abrasion resistance. USDA-compliant for incidental food contact.	73	3 - 6 mils	234 @ 5 mils	2	4R : 1C	2.5 hrs	5 hrs	10 hrs	2.2	HAPS Free

Exterior Coatings – Polyurethane

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® 450H	Gloss aliphatic polyurethane topcoat	Recoatable acrylic polyurethane topcoat where attractive appearance and long-term gloss and color retention are required. VOC-compliant.	67	2 - 3 mils	537 @ 2 mils	2	4R : 1C	4 hrs	4 hrs	8 hrs	2.6	HAPS Free
Amershield™	High-build polyester-acrylic aliphatic polyurethane	Low VOC, high-gloss rail car exterior and hopper lining. High-solids, gloss-retentive finish coat with excellent impact and abrasion resistance. USDA-compliant for incidental food contact.	73	3 - 6 mils	234 @ 5 mils	2	4R : 1C	2.5 hrs	5 hrs	10 hrs	2.2	HAPS Free
Amershield™ VOC	High-build, low VOC polyester-acrylic aliphatic polyurethane	Low VOC, high-gloss rail car exterior and hopper lining. Gloss-retentive finish coat with excellent impact and abrasion resistance. USDA-complaint for incidental food contact. Compliant with California SCAQMD Rule 1113.	73	3 - 6 mils	234 @ 5 mils	2	4R : 1C	2.5 hrs	5 hrs	10 hrs	0.7	HAPS Free

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Exterior Coatings – Siloxanes

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
PSX® 700	Engineered siloxane	Epoxy polysiloxane coating which can replace an epoxy/aliphatic polyurethane system in one coat. Exceptional gloss retention, corrosion resistance, and abrasion resistance. Low VOC. Meets NFPA Class A for flame spread. USDA-compliant for incidental food contact.	90	3 - 7 mils	289 @ 5 mils	2	4R : 1C	4 hrs	4 hrs	6 hrs	1	HAPS Free

Hopper Car Linings – Epoxies

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® 428PCLO	Solvent-free epoxy	Lining for hopper cars carrying dry bulk chemicals, plastic pellets, PVC, potash and dry bulk edibles. High initial gloss and excellent slip and release finish. Excellent flexibility.	100	8 - 16 mils	133.7 @ 12 mils	2	1R : 1C	0.3 hr	7 hrs	12 hrs	0.8	HAPS Free
Amerlock® 2	Fast-drying, surface-tolerant maintenance epoxy	Fast-dry, corrosion-resistant, high-solid, semi-gloss, surface-tolerant, maintenance epoxy. Excellent lining for hopper cars such as salt, fertilizer and potash. Can also be used as a tank lining for service such as clay slurry.	85	4 - 8 mils	273 @ 5 mils	2	1R : 1C	1 hr	3 hrs	5 hrs	1.5	0.94
Amerlock® 2 Glass Flake	High-build glass flake epoxy	High-solids glass flake epoxy lining for use in coal, petroleum coke service along with other items that can be abrasive.	87	8 - 20 mils	87 @ 16 mils	3	Refer to data sheet	1 hr	5 hrs	8 hrs	1.4	0.87
Amercoat® 320HSA	High-solids epoxy	High-solids, VOC-compliant lining for hopper cars carrying dry bulk chemicals, plastic pellets, PVC. FDA-compliant for dry direct food contact. Can be applied in one or more coats.	72	4 - 8 mils	1154 @ 1 mil	2	1R : 1C	2 hrs	3.5 hrs	6 hrs	2	0.74
Amercoat® 242	High-build glass flake epoxy	High-build, high-solids lining for rock, coal and aggregate hopper cars in high-abrasion and/or heavy-impact service. Can be applied in one or more coats.	88	8 - 20 mils	118 @ 12 mils	2	4R : 1C	1.5 hrs	5 hrs	10 hrs	1.2	HAPS Free
Amercoat® 242 HB	Solvent-free glass flake lining	Solvent-free, single-coat, high-build lining for gondolas & hopper cars in high-abrasion and/or heavy-impact service such as ballast or rock cars.	98	15 - 60 mils	80 @ 20 mils	2	4R : 1C	1 hr	12 hrs	24 hrs	1.2	HAPS Free

Hopper Car Linings – Urethane

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Champion 636	High-solids urethane	High-solids, VOC-compliant lining for hopper cars carrying dry bulk chemicals, plastic pellets and PVC. FDA-compliant for dry direct food contact. Must be applied in two coats.	87	10 - 12 mils per coat	140 @ 10 mils	2	3R : 1C	0.5 hr	4 hrs	8 hrs	0.87	1.16

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Tank Car Linings – Epoxies

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® 428PCLO	Solvent-free epoxy	A solvent-free epoxy tank car lining which meets FDA requirements for food contact. Suitable for service such as corn sweeteners.	100	8 - 16 mils	133.7 @ 12 mils	2	1R : 1C	0.3 hr	7 hrs	12 hrs	0.8	HAPS Free
Amercoat® 91	Epoxy novolac tank lining	Used as a high performance tank lining for road tankers and storage tanks in the chemical and petrochemical industries. Excellent protection from immersion, splash, spillage and fumes.	54	4 - 6 mils	866 @ 1 mil	2	7.3R : 1C	6 hrs	6 hrs	12 hrs	3.42	HAPS Free
Amercoat® 351	Solvent-free epoxy	VOC-compliant epoxy lining for tank cars. Contact your PPG sales representative for a chemical resistance list.	100	8 - 12 mils	196 @ 8 mils	2	3R : 1C	1 hr	12 hrs	18 hrs	0.28	HAPS Free
Champion 466 FDA	Epoxy lining	Epoxy lining for corn syrup cars with hi-slip finish. Conforms to FDA CFR21, part 175.300. Excellent flexibility.	53	4 - 6 mils	170 @ 5 mils	2	4R : 1C	4 hrs	10 hrs	18 hrs	3.4	2.35
Amercoat® 253	Epoxy novolac tank lining	Used as high performance tank lining for railroad tank cars in the chemical and petrochemical industries. Excellent protection from immersion, splash, spillage and fumes. Excellent resistance to a wide range of chemicals including caustics.	72	5 - 6 mils	289 @ 5 mils	2	4R : 1C	4 hrs	12 hrs	22 hrs	1.67	HAPS Free
Phenguard® 930	Epoxy phenolic tank lining	Formerly 7409 – Prime Coat in the *Phenguard* lining system. Excellent resistance to a wide range of organic acids, alcohols, caustics and solvents.	66	4 - 6 mils	265 @ 4 mils	2	88B : 12C	4 hrs	12 hrs	16 hrs	2.5	1.96
Phenguard® 935	Epoxy phenolic tank lining	Formerly 7435 – Second Coat in the *Phenguard* lining system. Excellent resistance to a wide range of organic acids, alcohols, caustics and solvents.	66	4 - 5 mils	265 @ 4 mils	2	88B : 12C	4 hrs	12 hrs	16 hrs	2.6	1.96
Phenguard® 940	Epoxy phenolic tank lining	Formerly 7436 – Finish Coat in the *Phenguard* lining system. Excellent resistance to a wide range of organic acids, alcohols, caustics and solvents.	66	4 - 5 mils	265 @ 4 mils	2	88B : 12C	4 hrs	12 hrs	16 hrs	2.6	1.96
Novaguard® 840	Solvent-free epoxy novolac tank lining	Used as a one-coat lining system with good chemical resistance against a wide range of chemicals, crude oil and solvents. Excellent wetting properties, including pitted surfaces. Easy application for quick throughput.	100	12 - 24 mils	134 @ 12 mils	2	4R : 1C	1 hr	10 hrs	16 hrs	0.9	HAPS Free
Novaguard® 890	Solvent-free epoxy novolac tank lining	Used as a one-coat lining system with good chemical resistance against a wide range of chemicals, crude oil and solvents. Excellent wetting properties, including pitted surfaces. Easy application for quick throughput.	100	12 - 24 mils	134 @ 12 mils	2	4R : 1C	1 hr	12 hrs	18 hrs	1.1	HAPS Free

Cleaners – Epoxies

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® Prep 88	Water-based cleaner	Used as a cleaner to clean intact painted surfaces in preparation for repainting.	NA	NA	NA	1	NA	NA	NA	NA	0	HAPS Free

Accelerators

Product	Description	End Uses	% Vol. Solids	Rec DFT (mils)	Coverage Sq. Ft.	Components	Mixing Ratio	Pot Life @ 70°F/21°C	Dry Thru @ 90°F/32°C	Dry Thru @ 70°F/21°C	VOC	HAPS
Amercoat® 866M	Urethane accelerator	Used with *Amercoat* 450 Series, *Amershield*, *Amershield* VOC and *Durethane* to reduce cure times and help increase shop throughput.	NA	NA	NA	1	NA	NA	NA	NA	0	HAPS Free

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