



## Mining & Metals

Global Products and Systems Brochure





Sherwin-Williams is a global integrated supplier of protective coatings to the global mining and metals market with a comprehensive product line engineered to protect assets from corrosion. With operations dating back 150 years, the company pioneered the development and commercialization of tank linings, edge retentive and surface tolerant coatings, coatings to combat CUI and the world's leading anti-corrosive passive fire protective coatings.

### Integrated supply chain and global technical quality control

A hallmark of the company's philosophy is its integrated supply chain, set up to deliver quality, value, service and logistical support unmatched by any other coatings company. From 4,000 company-owned distribution points, our products will arrive to the job site on a just-in-time basis. Product chemistry is transferred from centrally controlled laboratories to Sherwin-Williams manufacturing facilities anywhere in the world to ensure products are performance and formulation equals.

### High performance coatings that extend service life, control costs and promote uptime

*Do you need coatings and linings that are:*

- *Able to deliver extended service life in high temperature crude processes?*
- *Quick to apply?*
- *Rapid cure?*
- *Edge retentive?*
- *Surface tolerant?*
- *Able to cure at 20°F?*
- *Able to provide high-temperature resistance?*

### ASK US...

*We have the protective coatings solutions you need to protect your assets and save you time and money*



## GENERAL RECOMMENDATIONS

Welcome to The Sherwin Williams Mining & Metals Systems brochure. The objectives of this document is to help our clients find the best option for the best Coating System to protect their assets (structures, equipment, installations, etc.), against the corrosion produced by the chemical and abrasion conditions of many processes. Although this brochure covers many options and situations, we recommend that you contact our Technical Service Representatives of Sherwin Williams. Our experts will provide specifications for your specific requirements that will meet or exceed your expectations to protect your assets.

To protect the Mining Installations in a mine, a plant or annexed components made of steel or concrete, different coatings systems must be applied. The result will depend on some important conditions:

1. The quality of the appropriate system to be applied for determined conditions. The coatings thickness (dft) range recommended can be adjusted for your requirements by our Technical Service Representatives.
2. The Surface Preparation: As stated on our Product Data Sheets, we will refer you to the best Surface Preparation for the Coating Systems you will apply. Our Project Development Managers and/or Sales Tech Reps will provide you with special recommendations:

Surface Preparation Standards	ISO 8501-1 BS7079:A1	Swedish Std. SIS 055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning Rusted	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning Rusted	C St 3	C St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

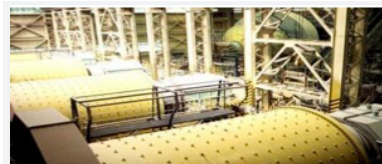
3. The weather conditions, humidity, temperature, dew point. Those conditions are very important to be considered to have a good dry & curing process of the applied coating. Detailed information is stated on the Product Data Sheet.
4. Appropriate application equipment in good conditions and adequate for the type of job and products will be applied. Detailed information is stated on the Product Application Bulletin.
5. Trained Industrial Coating Contractors with knowledge of Protective Coatings, Systems and Mining Installation.





## PAINTS & COATINGS FOR MINING & METALS

Dry Area: Mill, Crushers, Conveyors, etc.



### Low Aggressive Exposure

#### a.1 - Two Coats System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
2nd.	Acrolon™ 218 HS	Polyurethane HS	1	3.0 to 6.0 mils (75 to 150 microns)
	<b>Total</b>		<b>2</b>	<b>8.0 to 16.0 mils (200 to 400 microns)</b>

#### a.2 - Three Coats System (Maintenance, Marginal Surface Preparation):

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 920-100	Epoxy Pre Primer	1	1.0 to 1.5 mils (25 to 40 microns)
2nd.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
3rd.	Acrolon™ 218 HS	Polyurethane HS	1	3.0 to 6.0 mils (75 to 150 microns)
	<b>Total</b>		<b>3</b>	<b>9.0 to 17.5 mils (225 to 440 microns)</b>

### Medium Aggressive Exposure

#### a.1 - Two Coats System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Zinc Clad® IV	Zinc Rich Primer	1	3.0 to 5.0 mils (75 to 125 microns)
2nd.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
	<b>Total</b>		<b>2</b>	<b>8.0 to 15.0 mils (200 to 375 microns)</b>



## PAINTS & COATINGS FOR MINING & METALS

Dry Area: Mill, Crushers, Conveyors, etc.

### Medium Aggressive Exposure

#### a.2 - Three Coats System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Zinc Clad® IV	Zinc Rich Primer	1	3.0 to 5.0 mils (75 to 125 microns)
2nd.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
3rd.	Acrolon™ 218 HS	Polyurethane HS	1	3.0 to 6.0 mils (75 to 150 microns)
	<b>Total</b>		<b>3</b>	<b>11.0 to 21.0 mils (275 to 525 microns)</b>

### High Aggressive Exposure

#### a.1 - Two Coats System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
2nd.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>2</b>	<b>20.0 to 24.0 mils (500 to 600 microns)</b>

\* Dura-Plate® UHS can be applied in one coat 18.0 to 22.0 mils (450 to 550 microns)

#### a.2 - Two Coats System, Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
2nd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
	<b>Total</b>		<b>2</b>	<b>18.0 to 22.0 mils (450 to 550 microns)</b>

\* Fast Clad® 105 ER or Fast Clad® ER can be applied in one coat 18.0 to 22.0 mils (450 to 550 microns)



## PAINTS & COATINGS FOR MINING & METALS

Dry Area: Mill, Crushers, Conveyors, etc.

### High Aggressive Exposure

#### a.3 - Three Coats System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Dura-Plate® UHS Primer	Epoxy Modified	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
3rd.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>3</b>	<b>24.0 to 32.0 mils (600 to 800 microns)</b>

\* Dura-Plate® UHS can be applied in one coat 18.0 to 22.0 mils (450 to 550 microns)

#### a.4 - Three Coats System, Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Fast Clad® Epoxy Primer	Epoxy Modified	1	4.0 to 8.0 Mil (100 to 200 microns)
2nd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
3rd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
	<b>Total</b>		<b>3</b>	<b>22.0 to 30.0 mils (550 to 750 microns)</b>

\* Fast Clad® 105 ER or Fast Clad® ER can be applied in one coat 18.0 to 22.0 mils (450 to 550 microns) dft.



## PAINTS & COATINGS FOR MINING & METALS

Wet Area: Flotation Cells, Thickeners, Filters, Mixing Tanks



### Interior, Solution pH 3.5 to 9.5, Abrasive:

#### a.1 - Standard System (Steel):

Coat	Product	Product Description	# Coats	DFT
1st.	Dura-Plate® UHS Primer	Epoxy Modified	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>2</b>	<b>14.0 to 20.0 mils (350 to 500 microns)</b>

#### a.2 - Standard System (Steel Structures), Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
2nd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
	<b>Total</b>		<b>2</b>	<b>18.0 to 22.0 mils (450 to 550 microns)</b>

\*Fast Clad® 105 ER or Fast Clad® ER can be applied in one Coat 18.0 to 22.0 mils (450 to 550 microns) dft.

#### a.3 - High Technology System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Envirolastic® AR 425	Aromatic Polyurea	1	60.0 to 80.0 mils 80.0 to 100.0 mils (1,500 to 2,000 microns) (2,000 to 2,500 microns)
	<b>Total*</b>		<b>1</b>	<b>60.0 to 80.0 mils 80.0 to 100.0 mils (1,500 to 2,000 microns) (2,000 to 2,500 microns)</b>

\*Please note the dft is different in the bottom of the tank and the wall. Detailed information will be stated in the specs.



## PAINTS & COATINGS FOR MINING & METALS

Wet Area: Flotation Cells, Thickeners, Filters, Mixing Tanks

### Interior, Solution pH 3.5 to 9.5, Abrasive:

#### a.4 - Standard System (Concrete):

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>2</b>	<b>14.0 to 20.0 mils (350 to 500 microns)</b>

#### a.5 - Standard System (Concrete), Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	SherPlate® PW	Epoxy Modified PW	1	16.0 to 50.0 mils (400 to 1,250 microns)
	<b>Total</b>		<b>2</b>	<b>20.0 to 58.0 mils (500 to 1,450 microns)</b>

#### a.6 - High Technology System (Concrete):

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Envirolastic® AR 425	Aromatic Polyurea	1	60.0 to 80.0 mils 80.0 to 100.0 mils (1,500 to 2,000 microns) (2,000 to 2,500 microns)
	<b>Total*</b>		<b>2</b>	<b>64.0 to 88.0 mils 84.0 to 108.0 mils (1,600 to 2,200 microns) (2,100 to 2,700 microns)</b>

\*Please note the dft is different in the bottom of the tank and the wall. Detailed information will be stated in the specs.





## PAINTS & COATINGS FOR MINING & METALS

Wet Area: Flotation Cells, Thickeners, Filters, Mixing Tanks

### Interior, Solution pH 3.5 to 9.5, Abrasive:

#### a.7 - High Technology Alternative System, Rapid Return to Service (RRS) (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Copoxy Shop Primer	Epoxy Shop Primer	1	1.0 to 1.5 mils (25 to 40 microns)
2nd.	Sherflex™	Elastomeric Polyurethane	1	30.0 to 250.0 mils (750 to 6,250 microns)
	<b>Total</b>		<b>2</b>	<b>31.0 to 251.5 mils (775 to 6,290 microns)</b>

#### a.8 - High Efficiency System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st. (Optional)	Copoxy Shop Primer	Epoxy Shop Primer	1	1.0 to 1.5 mils (25 to 40 microns)
2nd.	Cor-Cote® HP (FF)	Epoxy Flake Filled	2	20.0 to 30.0 mils (500 to 750 microns)
	<b>Total</b>		<b>2 to 3</b>	<b>21.0 to 31.5 mils (525 to 790 microns)</b>

### Interior, High Concentration of Chemicals, Acid or Alkaline Solution:

#### a.1 - High Chemical Resistance System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Cor-Cote® HCR (FF)*	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
2nd.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
	<b>Total</b>		<b>2</b>	<b>30.0 to 40.0 mils (750 to 1,000 microns)</b>

*\*In some countries is maintained the production of Cor-Cote HCR V and can replace the (FF) version in the first coat with the same dft.*

#### a.2 - High Chemical Resistance System (Concrete):

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
	<b>Total</b>		<b>2</b>	<b>19.0 to 28.0 mils (475 to 700 microns)</b>



## PAINTS & COATINGS FOR MINING & METALS

Wet Area: Flotation Cells, Thickeners, Filters, Mixing Tanks

### Exterior:

#### a.1 - Standard System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
2nd.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
	<b>Total</b>		<b>2</b>	<b>10.0 to 20.0 mils (250 to 500 microns)</b>

#### a.2 - Gloss & Color Retention System (Steel Structures):

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
2nd.	Acrolon™ 218 HS	Polyurethane HS	1	3.0 to 6.0 mils (75 to 150 microns)
	<b>Total</b>		<b>2</b>	<b>8.0 to 16.0 mils (200 to 400 microns)</b>

#### a.3 - Gloss & Color Retention System (Steel Structures), Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Envirolastic® 940 DTM PA	Poly-Aspartic Polyurea	1	6.0 to 9.0 mils (150 to 225 microns)
	<b>Total</b>		<b>1</b>	<b>6.0 to 9.0 mils (150 to 225 microns)</b>

#### a.3 - Standard System (Concrete):

Coat	Product	Product Description	# Coats	DFT
1st.	Fast Clad® HB Acrylic	Acrylic WB	1	5.0 to 8.0 mils (125 to 200 microns)
2nd. (Optional)	Fast Clad® HB Acrylic	Acrylic WB	1	5.0 to 8.0 mils (125 to 200 microns)
	<b>Total</b>		<b>2</b>	<b>10.0 to 16.0 mils (250 to 400 microns)</b>



## PAINTS & COATINGS FOR MINING & METALS

Chemical & Electrochemical Refinery,  
Electro Winning (EW), Sulfuric Acid Plant



### Electro Winning Plants and Sulphuric Acid Plants:

#### a.1 - Steel Structures in Open Space:

Coat	Product	Product Description	# Coats	DFT
1st.	Dura-Plate® UHS Primer	Epoxy Modified Primer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Dura Plate® UHS	Epoxy Modified	1	18.0 to 22.0 mils (450 to 550 microns)
	<b>Total</b>		<b>2</b>	<b>22.0 to 30.0 mils (550 to 750 microns)</b>

#### a.2 - Steel Structures in Open Space, Rapid Return to Service System (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Fast Clad® Epoxy Primer	Epoxy Modified	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
3rd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	9.0 to 11.0 mils (225 to 275 microns)
	<b>Total</b>		<b>3</b>	<b>22.0 to 30.0 mils (550 to 750 microns)</b>

\*Fast Clad® 105 ER or Fast Clad® ER can be applied in one coat 18.0 to 22.0 mils (450 to 550 microns) dft.

#### a.3 - Steel Structures in Closed Spaces Heavy Duty:

Coat	Product	Product Description	# Coats	DFT
1st.	Cor-Cote® HCR (FF)*	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
2nd.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
	<b>Total</b>		<b>2</b>	<b>30.0 to 40.0 mils (750 to 1,000 microns)</b>

\*In some countries is maintained the production of Cor-Cote® HCR V and can replace the (FF) version in the first coat with the same dft.



## PAINTS & COATINGS FOR MINING & METALS

Chemical & Electrochemical Refinery,  
Electro Winning (EW), Sulfuric Acid Plant

### Electro Winning Plants and Sulphuric Acid Plants:

#### a.4 - Steel Structures in Open Space, Heavy Duty:

Coat	Product	Product Description	# Coats	DFT
1st.	Novaplate® 325 or Novaplate® UHS	Epoxy Novolac	1 or 1	20.0 to 40.0 mils (500 to 1,000 microns) 10.0 to 12.0 mils (250 to 300 microns)
2nd.	Novaplate® UHS	Epoxy Novolac	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total: Nova-Plate® 325 or Nova-Plate® UHS</b>		<b>1 or 2</b>	<b>20.0 to 40.0 mils (500 to 1,000 microns) 20.0 to 24.0 mils (500 to 600 microns)</b>

\* Nova-Plate® UHS access can have some restrictions in countries outside USA.

#### a.5 - Concrete Flooring, High Chemical Resistance Mortar Laminate RM System:

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Cor-Cote® HCR Clear with Aggregate M	Epoxy Novolac Mortar	1	61.0 to 65.0 mils (1,525 to 1,625 microns)
3rd.	Cor-Cote® HCR Clear + 1.0 Oz. Glass Mat	Epoxy Novolac	1	20.0 to 30.0 mils (500 to 750 microns)
4th.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
	<b>Total</b>		<b>4</b>	<b>100.0 to 123.0 mils (2,500 to 3,075 microns)</b>



## PAINTS & COATINGS FOR MINING & METALS

Chemical & Electrochemical Refinery,  
Electro Winning (EW), Sulfuric Acid Plant

### Electro Winning Plants and Sulphuric Acid Plants:

#### **a.6 - Concrete Flooring, High Chemical Exposure, High Heavy Traffic, Mortar Laminate MRM System:**

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Cor-Cote® HCR Clear with Aggregate M	Epoxy Novolac Mortar	1	60.0 to 65.0 mils (1,525 to 1,625 microns)
3rd.	Mat Cor-Cote® HCR Clear + 10 Oz. Glass Mat	Epoxy Novolac	1	30.0 to 40.0 mils (750 to 1,000 microns)
4th.	Cor-Cote® HCR Clear with Aggregate M	Epoxy Novolac Mortar	1	60.0 to 65.0 mils (1,500 to 1,625 microns)
5th.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
	<b>Total</b>		<b>5</b>	<b>169.0 to 198.0 mils (4,225 to 4,950 microns)</b>

#### **a.7 - Concrete Flooring, High Chemical Resistance, Light Traffic Coating System:**

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
3rd.	Cor-Cote® HCR (FF)	Epoxy Novolac	1	15.0 to 20.0 mils (375 to 500 microns)
	<b>Total</b>		<b>3</b>	<b>34.0 to 48.0 mils (850 to 1,200 microns)</b>





## PAINTS & COATINGS FOR MINING & METALS

### Truck Shop



### Light Vehicles:

#### a.1 - Coating System:

Coat	Product	Product Description	# Coats	DFT
1st.	GP 3526 Color	Epoxy	1	10.0 to 12.0 mils (250 to 300 microns)
2nd.	GP 3526 Color	Epoxy	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>2</b>	<b>20.0 to 24.0 mils (500 to 600 microns)</b>

#### a.2 - TPM 126:

Coat	Product	Product Description	# Coats	DFT
1st.	GP 3526 Clear	Epoxy	1	10.0 to 12.0 mils (250 to 300 microns)
2nd.	Mortar GP 3526 Clear + Aggregate GP 5115	Epoxy	1	120.0 to 157.0 mils (3,000 to 3,925 microns)
3rd.	GP 3526 Color or GP 4685 Color	Epoxy Topcoat or Polyurethane Topcoat	1 or 1	10.0 to 12.0 mils (250 to 300 microns) 4.0 to 5.0 mils (100 to 125 microns)
	<b>Total</b>		<b>3</b>	<b>140.0 to 181.0 mils (3,500 to 4,525 microns) or 134.0 to 174.0 mils (3,350 to 4,350 microns)</b>

#### a.3 - Polyurea System:

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Envirolastic® AR 425	Aromatic Polyurea	1	118.0 to 157.0 mils (2,950 to 3,925 microns)
	<b>Total</b>		<b>2</b>	<b>122.0 to 165.0 mils (3,050 to 4,125 microns)</b>

### Heavy Vehicles:

#### a.1 - TPM 118:

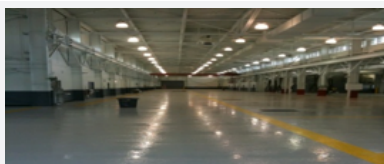
Coat	Product	Product Description	# Coats	DFT
1st.	GP 3579 Primer	Epoxy Modified	1	6.0 to 20.0 mils (150 to 500 microns)
2nd.	GP 3561 Clear + Aggregate GP 5326	Epoxy Modified Mortar	1	1.0 to 2.0 inches (2.50 to 5.0 centimeters)
	<b>Total</b>		<b>2</b>	<b>1 inch 6 mils to 2 inches 20 mils (2.55 to 5.10 centimeters)</b>

> This system with the application of a topcoat doesn't work well.



## PAINTS & COATINGS FOR MINING & METALS

Warehouse, Workshop, Cafeteria, etc., Concrete.



### a.1 - Coatings System:

Coat	Product	Product Description	# Coats	DFT
1st.	GP 3526 Clear	Epoxy LT & Damp Tolerant	1	10.0 to 12.0 mils (250 to 300 microns)
2nd.	GP 3526 Color	Epoxy LT & Damp Tolerant	1	10.0 to 12.0 mils (250 to 300 microns)
3rd	GP 3526 Color	Epoxy LT & Damp Tolerant	1	10.0 to 12.0 mils (250 to 300 microns)
<b>Total</b>			<b>3</b>	<b>30.0 to 36.0 mils (750 to 900 microns)</b>

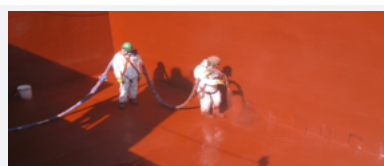
### a.2 - Slurry System:

Coat	Product	Product Description	# Coats	DFT
1st.	GP 4040	Urethane Primer	1	6.0 to 8.0 mils (150 to 200 microns)
2nd.	GP 4050 + 5050	Urethane Binder + Aggregate	1	80.0 to 120.0 mils (2,000 to 3,000 microns)
3rd	GP 5310	Special Silica Sand Broadcast	1	Broadcast to excess into the wet binder resin
4th	GP 3745	Epoxy Seal Coat	1	10.0 to 12.0 mils (250 to 300 microns)
<b>Total</b>		<b>FasTop System</b>	<b>4</b>	<b>&gt;96.0 to 140.0 mils (&gt;2,400 to 3,500 microns)</b>



## PAINTS & COATINGS FOR MINING & METALS

### Water Tanks in Mining



#### Potable Water:

##### a.1 - Interior Steel Tanks:

Coat	Product	Product Description	# Coats	DFT
1st.	Tank Clad HS	Epoxy	1	5.0 to 8.0 mils (125 to 200 microns)
2nd.	Tank Clad HS	Epoxy	1	5.0 to 8.0 mils (125 to 200 microns)
	<b>Total</b>		<b>2</b>	<b>10.0 to 16.0 mils (250 to 400 microns)</b>

##### a.2 - Interior Concrete Tanks:

Coat	Product	Product Description	# Coats	DFT
1st.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
2nd.	Dura Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>2</b>	<b>20.0 to 24.0 mils (500 to 600 microns)</b>

##### a.3 - Interior Concrete Tanks, Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified Sealer	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Sher-Plate® PW	Epoxy Modified PW	1	20.0 to 30.0 mils (500 to 750 microns)
	<b>Total</b>		<b>2</b>	<b>24.0 to 38.0 mils (600 to 950 microns)</b>



# PAINTS & COATINGS FOR MINING & METALS

## Water Tanks in Mining

### Operation Water:

#### a.1 - Interior Steel Tanks, Standard System:

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
2nd.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
	<b>Total</b>		<b>2</b>	<b>10.0 to 20.0 mils (250 to 500 microns)</b>

#### a.2 - Interior Concrete Tanks, Standard System:

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Dura-Plate® UHS	Epoxy Modified	1	10.0 to 12.0 mils (250 to 300 microns)
	<b>Total</b>		<b>2</b>	<b>14.0 to 20.0 mils (350 to 500 microns)</b>

#### a.3 - Interior Concrete Tanks, Standard System, Rapid Return to Service (RRS):

Coat	Product	Product Description	# Coats	DFT
1st.	Corobond™ 100 / LT	Epoxy Modified	1	4.0 to 8.0 mils (100 to 200 microns)
2nd.	Fast Clad® 105 ER or Fast Clad® ER	Epoxy Modified HS	1	18.0 to 22.0 mils (450 to 550 microns)
	<b>Total</b>		<b>2</b>	<b>22.0 to 30.0 mils (550 to 750 microns)</b>

#### a.4 - Interior Steel and Concrete Tanks, High Performance System:

Coat	Product	Product Description	# Coats	DFT
1st.	Envirolastic® LT Primer	Polyurea Primer	1	2.0 to 3.0 mils (50 to 75 microns)
2nd.	Envirolastic® AR 425	Aromatic Polyurea	1	60.0 to 80.0 mils (1,500 to 2,000 microns)
	<b>Total</b>		<b>2</b>	<b>62.0 to 83.0 mils (1,550 to 2,075 microns)</b>



## PAINTS & COATINGS FOR MINING & METALS

### Water Tanks in Mining

#### Potable and Operation Water Tanks, Exterior:

##### a.1 - Steel Tanks:

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 646 FC	Epoxy	1	5.0 to 10.0 mils (125 to 250 microns)
2nd.	Acrolon™ 218 HS	Polyurethane HS	1	3.0 to 6.0 mils (75 to 150 microns)
	<b>Total</b>		<b>2</b>	<b>8.0 to 16.0 mils (200 to 400 microns)</b>

##### a.2 - Steel Tanks:

Coat	Product	Product Description	# Coats	DFT
1st.	Envirolastic® 940 DTM PA	Polyurea Polyaspartic	1	6.0 to 9.0 mils (150 to 225 microns)
	<b>Total</b>		<b>1</b>	<b>6.0 to 9.0 mils (150 to 225 microns)</b>

##### a.3 - Concrete Tanks:

Coat	Product	Product Description	# Coats	DFT
1st.	Fast Clad® HB Acrylic	Acrylic WB	1	5.0 to 8.0 mils (125 to 200 microns)
2nd. (Optional)	Fast Clad® HB Acrylic	Acrylic WB	1	5.0 to 8.0 mils (125 to 200 microns)
	<b>Total</b>		<b>2</b>	<b>10.0 to 16.0 mils (250 to 400 microns)</b>





## PAINTS & COATINGS FOR MINING & METALS

General System for Wet Surfaces or High Humidity Conditions and Marginally Surface Preparation

### a.1 - Steel Structures or Tanks, Interior – Exterior, Damp Surface:

Coat	Product	Product Description	# Coats	DFT
1st.	Dura-Plate® 301	Epoxy Modified	1	3.0 to 6.0 mils (75 to 150 microns)
2nd.	Macropoxy® 646 FC or Acrolon™ 218 HS	Epoxy or Polyurethane HS	2	10.0 to 20.0 mils (250 to 500 microns) 6.0 to 12.0 mils (150 to 300 microns)
	<b>Total</b>		<b>3</b>	<b>13.0 to 26.0 mils (325 to 650 microns) or 9.0 to 18.0 mils (225 to 450 microns)</b>

### a.2 - Steel or Concrete Structures, Marginally Surface Preparation:

Coat	Product	Product Description	# Coats	DFT
1st.	Macropoxy® 920 100	Epoxy Modified Pre-Primer	1	1.5 to 2.0 mils (40 to 50 microns) 10.0 to 15.0 mils (254 to 381 microns)
2nd.	Macropoxy® 646 FC or Acrolon™ 218 HS	Epoxy or Polyurethane HS	2	12.0 to 20.0 mils (300 to 500 microns) 6.0 to 12.0 mils (150 to 300 microns)
	<b>Total</b>		<b>3</b>	<b>13.5 to 22.0 mils (340 to 550 microns) or 7.5 to 14.0 mils (190 to 350 microns)</b>



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