



Dura-Plate® 6100 Epoxy

High Performance Epoxy

Dura-Plate® 6100 Epoxy is a high build, high performance, 100% solids epoxy designed for corrosion protection of concrete and steel in municipal and industrial wastewater environments, especially where a high build and high physical value coating is required. Dura-Plate 6100 delivers overall cost savings with improved lifecycles, faster project completion and enhancement to structural properties of the existing asset.

Features

- High film build
- One coat application
- High physical strengths
- 100% solids/low VOC
- Fast return to service

Benefits

- Provides improved lifecycle due to increased wear course thickness
- Faster project completion and overall savings
- Extends the useful service life of the asset through structural property enhancement
- Application versatility to complete the project no matter the restrictions
- Reduces out of service time for critical assets

Recommended Uses

- Manholes
- Wet wells
- Lift stations
- Influent channels
- Digesters
- Steel pipe
- Concrete pipe
- Wastewater structures



Product Characteristics

Finish:	Matte
Color:	Off White
Volume Solids:	100%
VOC (measured):	<10 g/L (EPA Method 24)
Weight Solids:	100%, calculated mixed
Mix Ratio:	2:1, mix by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	12.0 (300)	125.0 (3125)
Dry mils (microns)	12.0 (300)	125.0 (3125)
~Coverage sq ft/gal (m²/L)	12.8 (0.3)	133.6 (12.4)

Drying schedule @ 120.0 mils wet (3000 microns):

**@ 77°F/25°C
50% RH**

To touch:	30 minutes
To handle:	2 hours
To recoat:	
Minimum:	15 minutes
Maximum:	8 hours
Cure to service:	12 hours

*If maximum recoat time is exceeded, scarify surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.*

Pot Life:	20 min/1 qt mass @ 77°F /25°C
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Performance Characteristics

Substrate:	Steel
Surface Preparation*:	SSPC-SP10
System Tested*:	

1 ct. Dura-Plate 6100 @ 80.0 mils (2000 microns) to 100.0 mils (2500 microns) dft
*unless otherwise noted below

Resistance Guide Immersion

Contact your local Sherwin-Williams Protective & Marine Sales Rep to verify suitability at elevated temperatures.

Acetic Acid 5%	Recommended
Ammonium Hydroxide 5%	Recommended
Diesel Fuel	Recommended
Ferric Chloride 1%	Recommended
Fresh and non potable water	Recommended
Gasoline	Recommended
Hypochlorous Acid 10%.....	Recommended
Kerosene	Recommended
Nitric Acid 10%	Recommended
Sodium Carbonate	Recommended
Sodium Chloride 10%.....	Recommended
Sodium Hydroxide 25%.....	Recommended
Sodium Hypochlorite 1%*.....	Recommended
Sulfuric Acid 20%	Recommended

*1% sodium hypochlorite solution was prepared from fresh standard household bleach where sodium hypochlorite solution concentration was assumed to be 5.25%

Test Name	Test Method	Results
Abrasion	ASTM D4060	<90 mg loss
Adhesion (Concrete)	ASTM D7324	Substrate Failure
Adhesion (Steel)	ASTM D4541	>3,000 psi
Compressive Strength	ASTM D695	15,000 psi
Elongation Percent	ASTM D638	4.8%
Flexural Modulus	ASTM D790	590,000 psi
Flexural Strength	ASTM D790	11,000 psi
Hardness, Shore D	ASTM 2240	83
Impact Resistance	ASTM D2794	30 in. lbs.
Modulus of Elasticity	ASTM D638	247,000 psi
Tensile Strength	ASTM D638	5,600 psi
Water Absorption	ASTM D570	0.15%
Water Vapor Transmission	ASTM D1653	3.0/gms/m ² (24 hrs)

Epoxy coatings may darken or discolor following application and curing and may chalk when composed to sunlight.

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