



Protective & Marine Coatings

ENVIROLASTIC™ 2500 POLYASPARTIC

Revised: 08/2020 Issue 3

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Envirolastic 2500 is a single coat, direct to metal polyaspartic primer/finish or a topcoat over approved primers. It is a fast dry polyaspartic technology formulated to provide anti-corrosion, resistance to mechanical damage, gloss & colour retention and low VOC.

- Total production cost savings
- ISO 12944:2018 approved to C3, C4 and C5 environments
- Improves production efficiency
- Low VOC emissions
- Excellent performance in a single coat

PRODUCT CHARACTERISTICS

Flash Point:	27°C (80°F), mixed (Seta Flash)
Finish:	Gloss
Colour:	Wide range of colours available
Volume Solids:	78% ± 2%, mixed, may vary by colour
VOC (EPA Method 24):	190 g/lit; 2.21 lb/gal, mixed, may vary by colour 193gms/kilo by weight to satisfy EC Solvent Emissions Directive
Cleanser/Thinner:	No 15 for (thinning) No 9 for cleaning)

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet microns (mils)	130 (5.0)	300 (12.0)
Dry microns (mils)	100 (4.0)	225 (9.0)
~Coverage m²/L (sq ft/gal)	7.8 (312)	3.5 (139)

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule:

	10°C 50%RH	20°C 50%RH	30°C 50%RH
To touch:	60 minutes	30 minutes	15 minutes
To handle:	3 hours	2 hours	60 minutes
To recoat:	2 hours	60 minutes	30 minutes

Pot Life: 60 - 75 minutes

The maximum recoat time with itself is 24 hours, if exceeded, abrade surface before recoating. Drying time is temperature, humidity and film thickness dependent.

RECOMMENDED USES

Suitable for use in a range of markets where durable performance and aesthetics are needed.

Key market segments include infrastructure, stadiums, oil & gas, mining & minerals and power.

Ideal for application to large steel structures and OEMs such as cranes, dockyard equipment, machinery & conveyer systems.

Externally pre-qualified in accordance with BS EN ISO12944-6:2018 for use in C3, C4 & C5 environments.

Suitable for airless spray, air-assisted airless, plural component airless spray, conventional, electrostatic spray, brush and roller.

PACKAGE

Pack Size:	15 litre unit when mixed
Mix Ratio:	2:1 by volume
Weight:	1.7kg/ltr (may vary with shade)
Shelf Life:	6 months, unopened - Store indoors at 4.5°C (40°F) to 38°C (100°F).

TYPICAL SYSTEMS

	Dry Film Thickness / ct.	
	<u>Microns</u>	<u>Mils</u>
1 ct. ENVIROLASTIC 2500 C2H and C3M / BS EN ISO12944-6:2018	120	(5)
1 ct. ENVIROLASTIC 2500 C2VH, C3H, C4M and C5L / BS EN ISO12944-6:2018	180	(7)
1 ct. Macropoxy 400 1 ct. Envirolastic 2500 C4H. BS EN ISO12944-6:2018	140 100	(6) (4)
1 ct. Macropoxy 400 1 ct. ENVIROLASTIC 2500 C4VH, C5H / BS EN ISO12944-6:2018	175 125	(7) (5)
1 ct. Fast-Clad 7220 1 ct. ENVIROLASTIC 2500 C4VH, C5H / BS EN ISO12944-6:2018	125 175	(5) (7)
1 ct. Zinc Clad IV EU 1 ct. ENVIROLASTIC 2500 C4VH, C5H / BS EN ISO12944-6:2018	60 200	(3) (8)

For compatibility and use with other primers please contact your Sherwin-Williams representative.



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SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

The systems listed above are representative of the product's use and other other systems may be appropriate.

Minimum recommended surface preparation:

- Iron & Steel: Sa2.5, (BS EN ISO8501-2007)
50-75 microns
(2-3 mil) profile
- Galvanizing: SSPC-SP16, 50 micron (2 mil) profile

Surface Preparation Standards

Condition of Surface	BS EN ISO 8501-1:2007	Swedish Std. SIS055900	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	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted	D St 3	SP 3	-

Approved Primers

Envirolastic 2500 is a fast cure technology that is designed to provide rapid return to service, as a result it is not compatible with all primers. The following primers are currently approved for use.

- Macropoxy 400
- Fastclad 7220
- Zinc Clad IVEU

The maximum overcoating interval on the approved list of primers is 28 days at all temperatures. If this is exceeded, it is recommended that the primer surface is abraded and cleaned down primer to overcoating with Envirolastic 2500.

APPLICATION CONDITIONS

Temperature: 5°C (41°F) minimum,
49°C (120°F) maximum
(air, surface, and material)
At least 3°C above dew point

Minimum Paint temperature 5°C for application. Maximum paint temperature 35°C for application. Maximum Relative Humidity 85%. Minimum Relative Humidity 35%. Maximum air and surface temperature 50°C. Clean application equipment thoroughly before and after use. Mixed coating is sensitive to water, use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and colour. Thoroughly mix both components before using or dry time, gloss and colour will be affected.

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

APPLICATION EQUIPMENT

Airless Spray:

Air Pressure Bars 80 - 100
Tip008" - .014"

Air Assisted Airless Spray:

Air Pressure Bars 2 - 4
Fluid Pressure Bars 40 - 160
Tip011" - .015"

Conventional Spray:

Air Pressure Bars 2 - 4
Fluid Pressure Bars 0 - 1,5
Tip 1.0 - 1.5mm

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.