

PRODUCT INFORMATION

Revsied 5/05

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PRODUCT DESCRIPTION		RECOMMENDED USES		
 ENVIROLASTIC AR520 PW is a 100% solids, spray-applied, aromatic polyurea lining system for potable water, which has extraordinary toughness and flexibility. It can be applied at thicknesses of 40.0-100.0 mils or greater in multiple passes during a single application and returned to service in four hours or less. Fast cure, short downtime No VOCs and low odor Seamless flexible and waterproof Bridges moving cracks to 1/8" Retains physical properties at -20°F to 250°F NSF approved to Standard 61 for tanks of 2,000 gallons minimum 		Designed for use in immersion exposure as a seamless waterproof liner for large diameter pipe and tanks convey- ing potable water, fresh and salt water. Ideally suited for use in facilities used for the handling, transport and storage of potable water to include: • Elevated steel water tanks • Concrete water tanks • Concrete reservoirs and pipe for potable water • Brine tanks • Aquariums, ponds, and fish hatcheries • Acceptable for use in USDA inspected facilities • Conforms to AWWA D102-03 ICS #4 Not recommended for use with cathodic protection systems.		
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS		
Finish: Color:	Semi-Gloss Beige, Black, Light Blue, Light Green, Red	Abrasion Resistance Method: ASTM D4060 Result: 1000 g 1000 cycles CS-17: 9 mg loss 1000 g 1000 cycles H-18: 150 mg loss		
Volume Solids: VOC (calculated):	100%	Adhesion Method: ASTM D4541 Result: Concrete - 350 psi; Steel - 1,750 psi, Wood 250 psi		
Mix Ratio:	1:1	Coefficient of Linear Thermal Expansion Method: ASTM C531 (in/in/°F) Result: 4 x 10 ⁻⁵		
Wet mils: Dry mils: Coverage: *60.0 mils dft minimum Drying Schedule @ 40.0 To touch: To recoat: minimum: maximum: Gel time: Tack free: Immersion (water): To cure:	ng Rate per application: 40.0 - 100.0 40.0 - 100.0* 16-40 sq ft/gal approximate for immersion service over concrete D mils wet @ 73°F and 50% RH: 3 minutes 3 minutes 16 hours 45 seconds 3 minutes 12 hours 24 hours weded, abrade surface and solventwipe before rature, humidity, and film thickness dependent. None None	Crack Bridging (@ -26°C (-15°F) @ 1/8") Method: ASTM C836 Result: Pass Durometer Hardness Method: ASTM D2240 Result: Shore D-50; A-95 Gardner Impact Method: ASTM D2794 (1/32" steel panels) Result: >160 in-lbs, direct and indirect Mandrel Bend Method: ASTM D522 Conical Bend (1/32" steel panel) Result: Pass Tear Strength Method: ASTM D624 Result: 400 pli Tensile Elongation Method: ASTM D638 Result: 520% Tensile Modulus		
Viscosity (mixed):	550 cps	Method: ASTM D638 Result: 100% Modulus - 1,000 psi		
Flash Point: Shelf Life:	200°F 12 months Store indoors at 70°F to 90°F	300% Modulus - 1,600 psi Tensile Strength Method: ASTM D638 Result: 2,500 psi		
Reducer:	Not recommended	_,,		
Clean Up:	Butyl Cellusolve™ (R6K25) or Dowanol PM™			

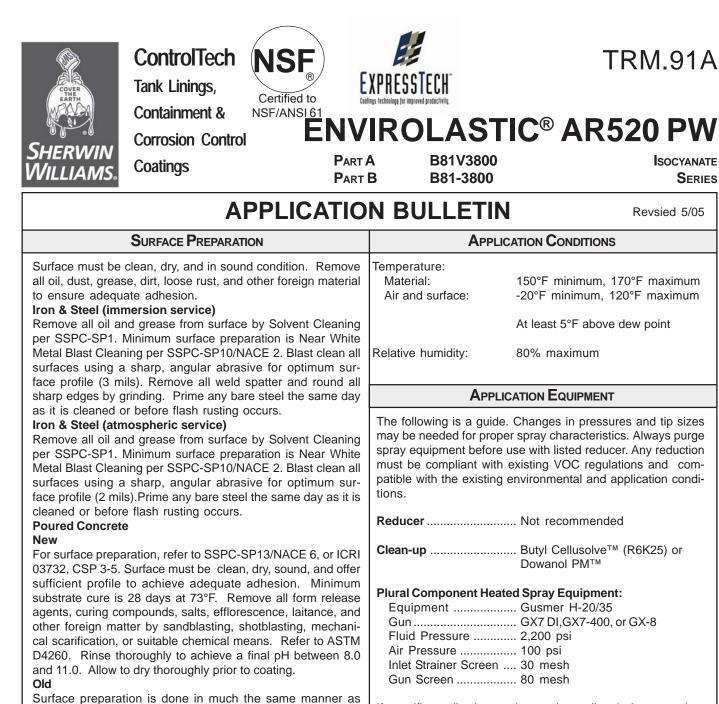


	Refer to product Application Bulletin for detailed application information.		
	ORDERING INFORMATION		
	Packaging: Part A: Part B:	53 gallon drums 53 gallon drums	
		SAFETY PRECAUTIONS	
	Refer to the MS	DS sheet before use.	
The systems listed above are representative of the product's use. Other systems may be appropriate.	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams repre- sentative for additional technical data and instructions.		
DISCLAIMER		WARRANTY	
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 Infor- mation and Application Bulletin.	ing defects in accord v Liability for products defective product or product as determined ANTEE OF ANY KIN IMPLIED, STATUTOF	s Company warrants our products to be free of manufactur- with applicable Sherwin-Williams quality control procedures. proven defective, if any, is limited to replacement of the the refund of the purchase price paid for the defective d by Sherwin-Williams. NO OTHER WARRANTY OR GUAR- ID IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR RY, BY OPERATION OF LAW OR OTHERWISE, INCLUD- LITY AND FITNESS FOR A PARTICULAR PURPOSE.	

Relative humidity:

At least 5°F above dew point

80% maximum



If special strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sand-blasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, Steel-Seam VSE epoxy filler is recommended to patch and resurface damaged concrete.

Fill all cracks, voids and bugholes with Steel-Seam VSE.

Always follow the standard methods listed below:

ASTM D4258 Standard Practice for Cleaning Concrete.

ASTM D4259 Standard Practice for Abrading Concrete. ASTM D4260 Standard Practice for Etching Concrete.

ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.

ICRI 03732 Concrete Surface Preparation

Immersion Service:

In addition to the above surface preparation, abrasive blasting of the concrete surface is required. If specific application equipment is not listed above, equivalent equipment may be substituted.



PART B

B81-3800

SERIES

APPLICATION BULLETIN

APPLICATION PROCEDURES	PERFORMANCE TIPS		
Surface preparation must be completed as indicated. Route and seal all cracks greater than 1/16" with EnviroLastic JS80 SL.	For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.		
Mixing Instructions: Agitate resin blend (B) component thoroughly with a drum mixer before use to disperse pigment and assure homoge- neity. Do not thin. Do not mix "A" and "B" resins together. Caution: Do not agitate in air and moisture.	**Where primers are used, do not fill the profile on concrete or steel with excess primer. Topcoat epoxy primers immediately after they become take free. "Tack free" is defined as slight to medium pressure with a gloved hand, placed on a primed surface, that when lifted shows a slight imprint or distortion to the surface, with no transfer of primer to the glove.		
Apply lining at the recommended film thickness and spread- ing rate as indicated below:	For Immersion Service : Spark test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete. Repair holidays found in accordance with these ASTM methods.		
Recommended Spreading Rate per application:Wet mils:40.0 - 100.0Dry mils:40.0 - 100.0*	For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas. For concrete, all cracks must receive a 6" wide by 30 mil dft detail coat.		
Coverage: 16 - 40 sq ft/gal approximate *60.0 mils dft minimum for immersion service over concrete	Use only heated, plural component equipment capable of producting 2,500 psi at 160°F and 2 gallon/minute output consistently.		
Drying Schedule @ 40.0 mils wet @ 73°F and 50% RH: To touch: 3 minutes To recoat: minimum: 3 minutes	In order to avoid blockage of spray equipment, clean equip- ment before use or before periods of extended downtime with Butyl Cellusolve™ (R6K25) or Dowanol PM™.		
maximum:16 hoursGel time:45 secondsTack free:3 minutesImmersion (water):12 hours	While spraying, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.		
To cure: 24 hours If maximum recoat time is exceeded, abrade surface and solvent wipe before recoating. Drying time is temperature, humidity, and film thickness dependent.	Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, rough- ness or porosity of the surface, skill and technique of the ap- plicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic con- ditions, and excessive film build.		
Pot Life: None	Do not agitate in air and moisture.		
Sweat-in Time: None	Consult your Sherwin-Williams representative for specific application and performance recommendations.		
Application of lining above maximum or below minimum rec- ommended spreading rate may adversely affect coating per- formance.	Refer to Product Information sheet for additional performance characteristics and properties.		
CLEAN UP INSTRUCTIONS	SAFETY PRECAUTIONS		
Clean spills and spatters immediately with Butyl Cellusolve™	Refer to the MSDS sheet before use.		
(R6K25) or Dowanol PM [™] . Clean tools and equipment im- mediately after use (including both "A" and"B" sides of plural component spray system) with Butyl Cellusolve [™] (R6K25) or Dowanol PM [™] .	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.		
DISCLAIMER	WARRANTY		
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 Infor- mation and Application Bulletin.	The Sherwin-Williams Company warrants our products to be free of manufactur- ing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUAR- ANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUD- ING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.		