THE Contr	olTech		TRM.81
sherwin-williams company Tank Linings,		ENVIROLASTIC®	AR530
	nment &	BRUSH	
Corros	ion Control		
Coatin	<i>QS</i> PART A		ISOCYANATE SERIES
INDUSTRIAL & MARINE COATINGS	PRODUCT IN	FORMATION	Revised 11/04
Prod	UCT DESCRIPTION	RECOMMENDED USES	
 ENVIROLASTIC AR530 BRUSH GRADE is a 100% solids, fluid applied polyurea elastomer repair material that is based on proprietary polyurea formulation and a modified amine curing mechanism. It can be applied at thicknesses of 30 - 250 mils in consecutive multiple applications. 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 Acceptable for use in USDA inspected facilities 		Designed for use as a repair material for p and linings in immersion and atmospheric a Ideally suited for use on systems such as: • Tank linings • Secondary containment • Hopper and tank car linings • Waterproof deck coatings • Industrial floor and walls	
Produc	T CHARACTERISTICS	PERFORMANCE CHARACTERIS	TICS
Finish: Color:	Semi-Gloss White, Light Gray, Medium Gray, Dark Gray, Black, Beige, Tile Red Silver Metallic, Caribbean Green	Abrasion Resistance Method: ASTM D4060 Result: 1000 g 1000 cycles CS-17: 5 mg lc Adhesion Method: ASTM D4541	oss
Volume Solids:	100%	Result: Concrete - 350 psi; Steel - 850 psi,	Wood 250 psi
VOC (calculated):	0	Coefficient of Linear Thermal Expansion Method: ASTM C531 (in/in/°F) Result: 4×10^{-5}	
Mix Ratio:	1:1	Crack Bridging (@ -26°C (-15°F) @ 1/8")	
Recommended Spreading Rate per coat:Wet mils:10.0 - 15.0Dry mils:10.0 - 15.0Coverage:100 - 160 sq ft/gal approximateNote:Multiplecoatsaretypicallyrequired.		Method: ASTM C836 Result: Pass Durometer Hardness Method: ASTM D2240 Result: Shore D-50	
To touch: To recoat: minimum:	0 mils wet @ 73°F and 50% RH: 20 minutes 20 minutes 16 hours	Gardner Impact Method: ASTM D2794 (1/32" steel panels) Result: >160 in-lbs, direct and indirect	
maximum: Gel time: Tack free: Light traffic: Vebicular traffic:	5 minutes 20 minutes 1 hour	Mandrel Bend Method: ASTM D522 Conical Bend (1/32" st Result: Pass	eel panel)
Vehicular traffic: 2 hours To cure: 24 hours If maximum recoattime is exceeded, abrade surface and solvent wipe before recoating. Drying time is temperature, humidity, and film thickness dependent.		Tear Strength Method: ASTM D624 Result: 525 pli	
Pot Life:	3 - 5 minutes	Tensile Elongation Method: ASTM D638 Result: 530%	
Sweat-in Time:	None	Tensile Modulus	
Viscosity (mixed):	300 cps	Method: ASTM D638 Result: 100% Modulus - 1,400 psi	
Flash Point:	200°F	300% Modulus - 1,800 psi	
Shelf Life:	12 months, unopened Store indoors at 70°F to 90°F.	Tensile Strength Method: ASTM D638 Result: 2,440 psi	
Reducer:	Not recommended	Water Vapor Transmission	
Clean Up:	Butyl Cellusolve™ (R6K25) or Dowanol PM™	Method: ASTM E96 Result: 0.02 perm	

THE ControlTech	TRM.81	
sherwin-williams company Tank Linings,	ENVIROLASTIC® AR530	
Containment &		
Corresion Control	BRUSH GRADE	
Contings Part I		
INDUSTRIAL & MARINE PRODUCT IN	IFORMATION	
COATINGS RECOMMENDED SYSTEMS	SURFACE PREPARATION	
Steel: EnviroLastic AR530 Brush Grade @ 10.0 - 15.0 mils dft/ct* Concrete, low temperature or fast set: 1 ct. Corobond LT Epoxy Primer @ 4.0 - 8.0 mils dft EnviroLastic AR530 Brush Grade @ 10.0 - 15.0 mils dft/ct* *Number of coats depends on depth of repair.	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 prepa- ration information. Minimum recommended surface preparation: Steel: Atmospheric: SSPC-SP10/NACE 2, 2 mil profile Immersion: SSPC-SP10/NACE 2, 3 mil profile Concrete & Masonry: Sandblast or shotblast to remove all laitance and achieve a profile equal to 80-100 grit sandpaper. Refer to SSPC- SP13/NACE 6 or ICRI Guide 03732.	
	Тілтілд	
	Do not tint.	
	APPLICATION CONDITIONS	
	Temperature:Material:60°F minimum, 120°F maximumAir and surface:-20°F minimum, 120°F maximumAt least 5°F above dew point	
	Relative humidity: 80% maximum	
	Refer to product Application Bulletin for detailed application information.	
	ORDERING INFORMATION	
	Packaging: Part A: 5 gallons Part B: 5 gallons	
	SAFETY PRECAUTIONS	
	Refer to the MSDS 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.	

The statements made herein are based on our research and/or the research of others believed to be accurate. No guarantee of their accuracy is made however, and such statements may be changed without notice.

THE ControlTech	TRM.81A		
THE SHERWIN-WILLIAMS COMPANY Tank Linings,	ENVIROI	ASTIC [®] AR530	
Containment &			
Corrosion Control	E	BRUSH GRADE	
PART A		ISOCYANATE	
INDUSTRIAL COATINGS PART E		Series	
& MARINE COATINGS APPLICATIO	N BULLETI	Revised 11/04	
SURFACE PREPARATION	Appl	ICATION CONDITIONS	
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. Iron & Steel (immersion service) Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10. Blast clean all sur- faces using a sharp, angular abrasive for optimum surface	Temperature: Material: Air and surface: Relative humidity:	60°F minimum, 120°F maximum -20°F minimum, 120°F maximum At least 5°F above dew point 80% maximum	
profile (3 mils). Remove all weld spatter and round all sharp edges by grinding to a minimum 1/4" radius. Prime any bare			
 steel the same day as it is cleaned or before flash rusting occurs. Iron & Steel (atmospheric service) Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils).Prime any bare steel the same day as it is cleaned or before flash rusting occurs. Poured Concrete New For surface preparation, refer to SSPC-SP13/NACE 6. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 73°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 10.0 and 13.0. Allow to dry thoroughly prior to coating. Old Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, 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. 	ment before use with compliant with existing the existing environme Reducer Clean-up Plural Component Dua Equipment Static mixer Reduction Plural Component Air Static mixer Reduction	1/2" dia, 32 element Not recommended equipment is listed above, equivalent	
Always follow the ASTM 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 F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Immersion Service: In addition to the above surface preparation, Brush Blasting of the concrete surface is required.			

	ControlTech	TRM.81
SHERWIN-WILLIAMS		ENVIROLASTIC® AR53
	<i>Carr Lata</i> (55,	
	Containment &	BRUSH GRAD
COVER THE EARTH	Corrosion Control Part A	
	Coatings Part E	
INDUSTRIAL & MARINE COATINGS	0	N BULLETIN
	APPLICATION PROCEDURES	PERFORMANCE TIPS
	on must be completed as indicated. Route as >1/16" with EnviroLastic JS80 SL.	For concrete, always perform Calcium Chloride test as pe ASTM F1869. Do not proceed with MVE >3 lbs.
ISO for each 1 pir Always add the Pa trowel for 15 to 3	ns: reas,combine one Part B resin to one Part A nt batch. Do not pre-mix either component. art B resin to the Part A ISO. Mix with margin 30 seconds until uniform. For large repair component equipment.	For immersion applications, a minimum total dry film thick ness of 60 mils is required. Always apply lining material in a least four applications. Spark test in accordance with ASTM D5162 for steel or ASTM D4787 for concrete after applicatio of the second coat. Repair holidays found prior to applicatio of final coat.
	e repair material at the recommended film reading rate as indicated below:	For steel, stripe coat all chine, welds, bolted connections, an sharp angles to prevent early failure in these areas. For cor crete, all cracks must receive a 6" wide by 30 mil dft detail coa
	spreading Rate per coat:	
Wet mils: Dry mils:	10.0 - 15.0 10.0 - 15.0	Spreading rates are calculated on volume solids and do no include an application loss factor due to surface profile, rough
Coverage:	100 - 160 sq ft/gal approximate	ness or porosity of the surface, skill and technique of the ap
Note: Multiple coats ar		plicator, method of application, various surface irregularities material lost during mixing, spillage, overthinning, climatic cor
Drying Schedule	@ 15.0 mils wet @ 73°F and 50% RH:	ditions, and excessive film build.
To touch:	20 minutes	
To recoat:	20 minutos	Consult your Sherwin-Williams representative for specific ap
minimum: maximum:	20 minutes 16 hours	plication and performance recommendations.
Gel time:	5 minutes	Refer to Product Information sheet for additional performanc
Tack free:	20 minutes	characteristics and properties.
Light traffic:	1 hour	
Vehicular traffic		
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.		
Pot Life:	3 - 5 minutes	
Sweat-in Time:	None	
	ating above maximum or below minimum preading rate may adversely affect coating	
CLEAN UP INSTRUCTIONS		SAFETY PRECAUTIONS
Clean spills and spatters immediately with Butyl Cellusolve [™] (R6K25) or Dowanol PM [™] . Clean tools and equipment immediately after use (including both "A" and"B" sides of plural component spray system) with Butyl Cellusolve [™] (R6K25) or Dowanol PM [™] .		Refer to the MSDS sheet before use. Published technical data and instructions are subject t change without notice. Contact your Sherwin-Williams repre- sentative for additional technical data and instructions.

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