COVER	Protec	tive N		IRA-PLA	TE [®] 301 solvent-fr	L/301K REE EPOXY	
SHERWIN	Mar Coati	ine		STANDARD VERSION	Part A: Part B:	N02MIL-K Series N02CA301K	
WILLIAMS .	Cuau	ngs		LOWER TEMP VERSION	N PART A: PART B:	N02MIL-L SERIES N02CA301L	
Revised: Februa	ary 6, 2014	P	RODUCT I	NFORMATION			
P RODUCT D ESCRIPTION				Recommended Uses			
DURA-PLATE 301L/K is a solvent-free, surface and humidity tolerant two-pack modified epoxy. It can be applied without dew point restrictions and over damp steel surfaces. DURA-PLATE 301L/K show good chemical and abrasion resistance and good edge-retentive properties. It can be applied over steel prepared by hydroblasting, grit blasting or mechanical tooling. • Excellent edge retention (when used with 301S) • No dew point or relative humidity restrictions • Excellent anticorrosive properties • Can be applied over damp substrates • Can be applied over medium flash rust				DURA-PLATE 301L/K is an anticorrosive coating for long ser- vice life steel protection. It can be used for both immersion and above the waterline service in marine, offshore, construction and industrial applications.			
				It is suitable for new building, conversion, repair or maintenance applications. It provides superior performance protecting areas such as ballast tanks, void tanks, crude oil tanks, slop tanks, mud pits, wet spaces, bilges, decks, external hull and steel bridges. Suitable for use in USDA Inspected Facilities.			
D				Suitable for use in th	e Mining & Minerals	Industry.	
F F		ARACIERISTICS	5	PERFOR	RMANCE CHARACTE	RISTICS	
Finish: Color:	Semi	-gioss Oxide: Moss Gre	en Light Grav	Test Name	Test Method	Results	
	White	e, Dark Gray	ch, Light Oray,		After application and curing	1740 - 3480 psi 12,0 - 24,0 MPa	
Volume Solids: Weight Solids:	97 ± 98 ±	3% 2%			After 1000 hrs salt fog	1350 - 1550 psi 9,3 - 10,8 MPa (301K + 301S)	
VOC (EPA Method Mix Ratio:	d 24): <100 3.3:1	g/L ; 0.83 lb/gal , by volume		Adhesion (Pull-off) ASTM D4541	After 700 hrs salt fog	1450 psi / 10,0 MPa (301L + 301S + PU14) NF EN 24624	
Theore	etical Spread	<u>ding Rate per d</u> Minimum	<u>coat:</u> Maximum		After 1000 hrs condensation	1670 - 2000 psi 11,5 - 13,8 MPa (301K + 301S)	
Wet mils (micro Dry mils (micro ~Coverage sq f	ns) ns) t/gal (m²/L)	4.0 (100)4.0 (100)267 (6.7)	6.0 (150) 6.0 (150) 401 (10)	Atmospheric Exposure	2.5 years	Rust rating: 10 Blistering rating: 10 Scribe undercut: .5mm	
NOTE: Brush or roll application		on may require multiple coats to		Cathodic Disbonding	MIL-P-24647, 90 days	Passes	
Drying Sch	edule @ 4.0	mils wet (100	microns):	Combined Weathering	NACE TM0184, 4000 hrs.	No defects ~ 15.000 psi (1.050	
Version: 301L	@ 50°F/10°C	@ 77°F/25°C 50% RH		Compressive Strength	ISO 844	KgF/cm ²)	
To touch:	48 hours	10 hours		Correction Weathering	NORSOK M-501 Rev.4, 4200 hrs.	Rating 10 per ASTM D714 for blistering;	
To recoat:	48 hours	16 hours		Corrosion Weathering	ASTM D5894, 4032 hrs. ISO 20340, 4200 hrs.	Rating 10 per ASTM D610 for rusting	
maximum: To cure: Pot life: Version: 301K	15 days 10 days 4 hours @ 59°F/15°C	7 days 4 days 45 minutes @ 77°F/25°C	@ 104°F/40°C	Edge-retention	MIL-PRF-23236	Ratio of 74-101%, for edge radius from 0.1 mm to 2.4 mm, respectively. 301K + 301S system	
To touch:	24 hours	<i>50% RH</i> 14 hours	5 hours	Elasticity Modulus	ISO/R 527	~1,422 x 106 psi (100,000 KgE/cm ²)	
Foot traffic:	56 hours	24 hours	16 hours	Fire Resistance	ASTM E84-01	Rating A	
minimum:	24 hours	16 hours	8 hours	Flexibility	ASTM D522, 180° bend, 1/2" mandrel	Passes	
maximum: To cure: Pot life:	15 days 10 days 8 hours	8 days 4 days 3 hours	5 days 36 hours 30 minutes	Flexural Strength	ISO 178	9245 psi (650 KgF/ cm ²)	
Drying time is tem	perature, humic	tity, and film thickn	ess dependent.	Humidity Resistance	ASTM D4585, 1000 hrs. ASTM D4585, 2000 hrs.	ASTM D1654, Rating:10 No defects	
Shelf Life:		12 months, uno	pened 40°F (4.5°C) to	Maximum Elongation	ISO/R 527	3%	
		100°F (38°C)		Prohesion	ASTM G85, 2000 hours	Passes	
Flash Point: Clean Up:		>212°F (>102°C), n R6K10 (MEK) or	nixed (ASTM D56) R7K104	Salt Fog Resistance	ASTM B117, 1000 hours ASTM B117, 2000 hours	No defects	

Pro ⁻	tective	DU	JRA-F		E [®] 30	1L/301K	
	&	MOISTURE		ANT SC	JLVENI-	FREE EPOXY	
	arine		Standard V	ERSION	PART A:	N02MIL-K SERIES	
WILLIAMS.	atings		Lower Temp	P VERSION	PART A: PART B:	N02CASO IN N02MIL-L Series N02CA301L	
Revised: February 6, 201	4	PRODUCT I	NFORMA	TION			
	•						
В ЕСОММ	IENDED S ystei	ИS		SURF	ACE P REPAR	ATION	
Immersion or Atmospheric	Dry F <u>Mils</u> C	ilm Thickness / ct. (<u>Microns)</u>	dust, grease adequate ad	st be clean a , dirt, loose r lhesion.	and in sound c ust, and other f	condition. Remove all oil, foreign material to ensure	
1-2 cts.DURA-PLATE 3011 ct.DURA-PLATE 301	L or K 4.0- S (optional) 4.0-	6.0 (100-150) 6.0 (100-150)	DURA-PLATE 301L or K is tolerant to hydroblasted, wet or dry abrasive blasted or mechanically treated surfaces.				
Atmospheric 1-2 cts. DURA-PLATE 301 1-2 cts. Acrolon 218 HS P	-6.0 (100-150) -6.0 (75-150)	*Abrasive blasting: SSPC SP6 or NACE 3 (ISO 8501-1:1988) Hydroblasting: WJ-2M (SSPC SP12 – VIS4(I) / NACE N°5 - N°7) *Mechanical Treated: SSPC SP3 (ISO 8501 -1:1988)					
The systems listed shows are r	conconstative of the	productio uso other					
systems may be appropriate.			Additional Advantages: independently of the type of surface preparation, DURA-PLATE 301 moisture tolerance allows for a clean water surface washing before coating to reduce salt contamination. This procedure allowance means that SC2 non-				
CERTIFICAT	ES AND APPRO	VALS	visual stand	ards (NACE	5 / SSPC-SP1	2) can easily be reached.	
IMO PSPC (301K only): T system compliant with IMC dard for Protective Coatin Tanks and Double Side S	the coating application even over a considerably flash rusted surface (equivalent to M degree as described at SSPC VIS4 (I) / NACE N°7 standard).						
Certificate Number: 08-HS Type Approval Certificate O Type Approval Certificate I	ermanischer Lloyds IH. Lloyds Register /2847.	Recoating over old paints in good condition : DURA-PLATE 301L or K in most cases can be applied over existing sound coating systems. Adhesion with existing coatings should be tested in a small area, before painting. Also, the adhesion of the tested in a small area.					
SNCF : Approved by Soc (France) as a part of a coat tion using Ultra High Press	the old material should be verified. All loose materials should be removed. Please contact our Technical Support team to evalu- ate surface preparation alternatives. Acceptable cleaning and degreasing the surface is required. Abrading the old coating surface, to promote adhesion, is also recommended.						
NFPA : part of a system retional Fire Protection Ager	cognizable as Cl ncy (USA) regard	ass A rated by Na- ling Flame Spread		Surface	Preparation Star	ndards	
and Smoke Developed In 101. Systems have been to by the NGC Fire Testing H330).	to NFPA standard STM E84 standard FH 1525, Project	White Metal Near White Met Commercial Bla Brush-Off Blast Hand Tool Clear	Condition Surface al st aing Rusted	of ISO 8501-1 BS7079:A1 Sa 3 Sa 2.5 Sa 2 Sa 1 C St 2	Swedish Std. SSPC NACE SI3055900 SSPC NACE Sa 3 SP 5 1 Sa 2 SP 6 3 Sa 1 SP 7 4 C S1 2 SP 2 -		
Newcastle City Health : grain cargo by Newcastle	Tested for non Occupational H	-contamination of lealth, UK (Report	Participanting 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 D St 3 SP 3 -				
A PPUCA:		NS					
Temperature: 3		301K	5 Gal kit:	Part A:	4 US gal in a	5 US gal container	
Ambient: Minimum: 50	0°F/10°C	59°F/15°C		Part B: Weight:	<u>1 US gal in a</u> 54.54 ± 0.2 lb	<u>1 US gal container</u> s (24.79 K/g)	
Substrate: Minimum: 50 Maximum: 12	0°F/10°C 22°F/50°C	50°F/10°C 122°F/50°C	1 Gal kit:	Part A : <u>Part B:</u> Weight:	0.8 US gal in 0.2 US gal in 10.91 ± 0.2 lb	a 1 US gal container <u>a 1 US quart container</u> s (4.96 K/g)	
Relative humidity: N	o restrictions		20 Liter kit:	Part A:	16 Liters in a	20 Liter container	
Refer to product Application Bu	Illetin for detailed ap	oplication information.		<u>Part B:</u> Weight:	4 Liters in a 5 57.64 ± 0.2 lb	<u>Liter container</u> s (26.2 K/g)	
	IINTING		5 Liter kit:	Part A :	4 Liters in a 5	Liter container	
Do not tint.				Part B: Weight:	<u>1 Liter in a 1 L</u> 14.41 + 0.2 lb	<u>-iter container</u> s (6.55 K/g)	
И	ARRANTY				0.2 10		
The Sherwin-Williams Company wa defects in accord with applicable	arrants our products to Sherwin-Williams au	be free of manufacturing ality control procedures.			DISCLAIMER		
Liability for products proven defect fective product or the refund of the as determined by Sherwin-Williams OF ANY KIND IS MADE BY SHER STATUTORY, BY OPERATION OF CHANTABILITY AND FITNESS FO	tive, if any, is limited to purchase price paid s. NO OTHER WARR WIN-WILLIAMS, EXF F LAW OR OTHERW OR A PARTICULAR F	o replacement of the de- for the defective product ANTY OR GUARANTEE PRESSED OR IMPLIED, ISE, INCLUDING MER- PURPOSE.	The information are based upor Company. Suc to change and your Sherwin-V Information and	n and recommer n tests conducte ch information ar pertain to the pr Villiams represe d Application Bu	ndations set forth i d by or on behalf nd recommendatio oduct offered at th ntative to obtain th lletin.	n this Product Data Sheet of The Sherwin-Williams ons set forth herein are subject ie time of publication. Consult ie most recent Product Data	

COVER MERTIN	Protective &	DU MOISTURE	IRA-I	PLAT	E [®] 30 [°]	1L/301K REE EPOXY
SHERWIN	Marine Coatings		Standard V		Part A: Part B:	N02MIL-K Series N02CA301K
VVILLIAMS _®	8-		Lower Tem	IP VERSION	Part A: Part B:	N02MIL-L SERIES N02CA301L
Revised: Februa	ary 6, 2014		N BULL	ETIN		
	APPLICATION CONDITIONS					
Surface must be dust, grease, dirt,	clean and in sound cond loose rust, and other fore	dition. Remove all oil, ign material to ensure	Temperature	e:	301L	301K
DURA-PLATE 30	11. 01L or K is tolerant to hvo	droblasted, wet or dry	Amplent:	Minimum:	50°F/10°C	59°F/15°C
abrasive blasted	or mechanically treated	surfaces.	Substrate.	Minimum: Maximum:	50°F/10°C 122°F/50°C	50°F/10°C 122°F/50°C
Hydroblasting: W *Mechanical Tre	J-2M (SSPC SP0 01 NACE J-2M (SSPC SP12 – VIS4 ated: SSPC SP3 (ISO 8	S (ISO 8501-1.1988) (I) / NACE №5 - №7) (501 -1:1988)	Relative hur	nidity:	No restrictions	
*Recommended su	rface profile 2-3 mils (50-75	5 microns)	Refer to prod	uct Application	Bulletin for detaile	d application information.
preparation, DUF	RA-PLATE 301 moisture	tolerance allows for		Applic	CATION EQUIP	MENT
contamination. The visual standards (DURA-PLATE 30) the coating appling surface (equivale / NACE N°7 stand Recoating over of 301L or K in most coating systems, tested in a small the old material so be removed. Ple evaluate surface and degreasing the surface, to promote	his procedure allowance NACE 5 / SSPC-SP12) c 1 iron oxides tolerance a cation even over a cons int to M degree as descril dard). old paints in good cond st cases can be applied Adhesion with existing area, before painting. A should be verified. All loo ase contact our Techni preparation alternatives. he surface is required. Ab ote adhesion, is also reco	means that SC2 non- an easily be reached. Ilows to proceed with iderably flash rusted bed at SSPC VIS4 (I) dition: DURA-PLATE over existing sound coatings should be liso, the adhesion of ose materials should cal Support team to Acceptable cleaning rading the old coating ommended.	The followin be needed equipment I compliant w existing env Clean Up Airless Spr Pressure. Tip Reduction Conventior Gun Fluid Tip . Cap	ng is a guide. (for proper spi before use wit vith existing V vironmental an ray	Changes in press ray characteristic th listed reducer OC regulations a nd application co R6K10 (MEK) 3625 - 4350 ps 015"021" None DeVilbiss MBC D 64HD 64HD 64HD	sures and tip sizes may s. Always purge spray Any reduction must be ind compatible with the nditions. or R7K104 si (250-300 bar)
			Fluid Pres Fluid & Ai	ssure r Lines	15 psi 3/8"	
			Plural Com Pump Pressure. Hose Tip Pump Hea	ponent Equi	pment Graco XP70 or 5,000 psi 3/8" ID 015"021" 80-90	r ExtremeMix
			Brush (for s Brush	stripe coatin	g and repair onl Nylon/polyeste	ly) er or natural bristle
			Roller (for s	stripe coatin	g and repair onl 3/8" woven wit	l y) h solvent resistant core
C: Si White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning Power Tool Cleaning Pi	Surface Preparation Standar ondition of urface ISO 8501-1 Swe BS7079:A1 Sis Sa 3 Sa 3 Sa 3 Sa 3 Sa 2.5 Sa 1 Sa 1 Sa 1 Sa 1 Sa 2 Sa 1 Sa 2 Sa 1 Sa 1 Sa 1 Sa 2 Sa 1 Sa 1 Sa 1 Sa 1 Sa 2 Sa 1 Sa 2 Sa 1 Sa 1	rds edish Std. 055900 SSPC NACE 3 SP 5 1 2.5 SP 10 2 2 SP 6 3 1 SP 7 4 t2 SP 2 - t2 SP 2 - t3 SP 3 - t3 SP 3 -	If specific a equipment i	pplication eq may be subst	uipment is not lis ituted.	sted above, equivalent

COVER	Protec	tive		JRA-PLAT	E [®] 30	1L/301K FREE EPOXY	
SHERWIN	Mari Coati	ine ngs		STANDARD VERSION	Part A: Part B:	N02MIL-K Series N02CA301K	
VVILLIAMS 。		-87		LOWER TEMP VERSION	Part A: Part B:	N02MIL-L SERIES N02CA301L	
Revised: Februa	ary 6, 2014	<u> </u>	APPLICATIC				
Application Procedures				Performance Tips			
Surface preparat	ion must be co	ompleted as inc	licated.	Stripe coat all crevices, w failure in these areas.	velds, and shar	p angles to prevent early	
Mixing Instructions: Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.				When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary,			
rate as indicated	below:		1 0				
Theoretical Spreading Rate per coat:MinimumMaximumWet mils (microns)4.0 (100)6.0 (150)Dry mils (microns)4.0 (100)6.0 (150)			an application loss factor due to surface profile, roughness or po- rosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive				
Coverage sq f	it/gal (m²/L) or roll application of film thickness	267 (6.7) n may require must and uniformity of mile wet (100	401 (10) Itiple coats to of appearance.	film build. Reduction of material will	affect film build	l, appearance, and adhe-	
Version: 301L	@ 50°F/10°C	@ 77°F/25°C 50% RH	<u>Inicionaj.</u>		al maal waata dad	1	
To touch: Foot traffic: To recoat:	Solve RHTo touch:48 hours10 hoursFoot traffic:56 hours24 hoursTo recent:10 hours			Do not apply the material beyond recommended pot life.			
minimum: maximum: To cure: Pot life:	48 hours 15 days 10 days 4 hours	16 hours 7 days 4 days 45 minutes		In order to avoid blockag before use or before peri R6K10 (MEK) or R7K104	e of spray equ ods of extende	ipment, clean equipment d downtime with reducer	
Version: 301K To touch: Foot traffic:	@ 59°F/15°C 24 hours 56 hours	@ 77°F/25°C 50% RH 14 hours 24 hours	@ 104°F/40°C 5 hours 16 hours	Holiday Detection (if rec coating with appropriate NACE RPO188-0 for spe	uired): Prior to holiday detect cific procedures	o immersion service, test ion equipment. Refer to s.	
minimum: maximum: To cure: Pot life: Drying time is tem	24 hours 15 days 10 days 8 hours perature, humid	16 hours 8 days 4 days 3 hours ity, and film thicki	8 hours 5 days 36 hours 30 minutes ness dependent.	Guidance on techniques coating system incorporat found in SSPC-TU 11.	and required ting Opti-Check	equipment to inspect a OAP Technology can be	
Application of correcommended sp performance.	bating above preading rate	maximum or k may adversely	pelow minimum y affect coating	Refer to Product Informa characteristics and prop	ation sheet for a perties.	additional performance	
CLEAN UP INSTRUCTIONS				SAFETY PRECAUTIONS			
Clean spills and spatters immediately with R6K10 (MEK) or R7K104. Clean tools immediately after use with R6K10 (MEK) or R7K104. After cleaning, flush spray equipment with R6K10 (MEK) or R7K104 to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using R6K10 (MEK) or R7K104.			Refer to the MSDS sheet befor Published technical data and ir Contact your Sherwin-Williams instructions.	e use. nstructions are sub representative for	oject to change without notice. r additional technical data and		
				The Sherwin-Williams Company	/ warrants our prod	ucts to be free of manufacturing	
The information and re based upon tests conc Such information and re pertain to the product Williams representativ Application Bulletin.	ecommendations ducted by or on be ecommendations offered at the time e to obtain the mo	set forth in this Pro shalf of The Sherwir set forth herein are s e of publication. Co ost recent Product I	duct Data Sheet are h-Williams Company. ubject to change and onsult your Sherwin- Data Information and	defects in accord with applicat Liability for products proven dei fective product or the refund of as determined by Sherwin-Willia OF ANY KIND IS MADE BY SH STATUTORY, BY OPERATION CHANTABILITY AND FITNESS	DIE Sherwin-Williar fective, if any, is lin the purchase price ams. NO OTHER V IERWIN-WILLIAMS I OF LAW OR OTH & FOR A PARTICU	ns quality control procedures. nited to replacement of the de- e paid for the defective product VARRANTY OR GUARANTEE S, EXPRESSED OR IMPLIED, HERWISE, INCLUDING MER- LAR PURPOSE.	