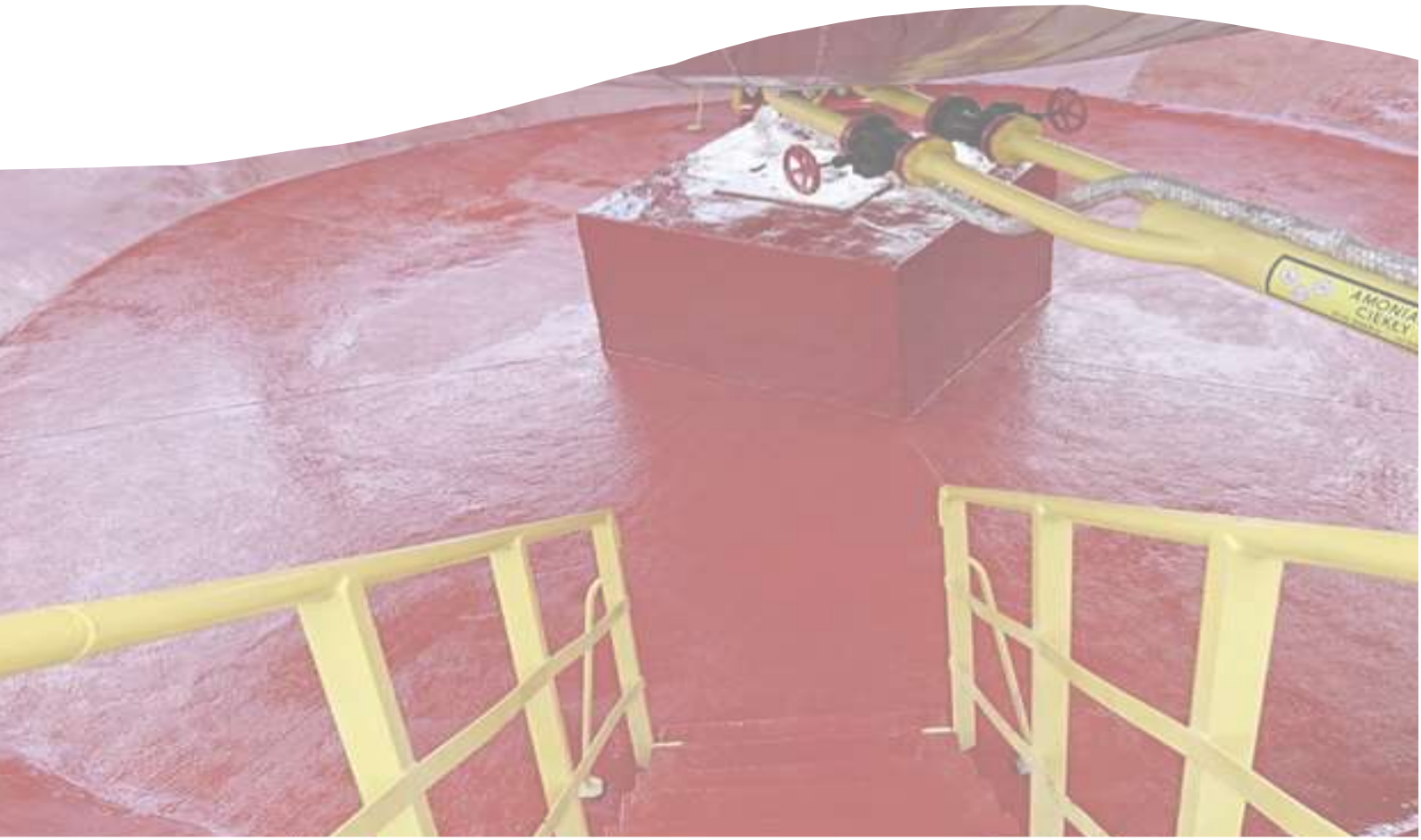
resimac Ltd.

Repair Protect Upgrade

Chemical Protection Systems Guide



Chemical Protection Products - Product Selector Guide

		501 CRSG	501 CRXL	501 ARXL	507 DWPU	511 UCEN	512 UCEN 90	512 UCEN 90 XL	513 AREN
Product Characteristics	Epoxy	¤	¤	¤		¤	¤	¤	¤
	Polyurethane				¤				
	Solvent Free	¤	¤	¤	¤	¤	¤	¤	¤
	Abrasion resistant			¤					¤
	Pot Life <30mins	¤					¤		
	Pot Life 30-60mins		¤	¤	¤	¤		¤	¤
	Brush/ Roller Applied	¤	¤	¤	¤	¤		¤	¤
	Single Leg Airless		¤	¤		¤		¤	¤
	Plural feed Spray	¤	¤	¤	¤	¤	¤	¤	¤
Coating System DFT	500 microns	¤	¤						
	800 microns			¤					
	1000-1200 microns				¤	¤	¤	¤	¤
Surface Preparation	Mechanical ST2/3	¤			¤				
	Hydro-Blasted	¤							
	Abrasive Blast SA2.5	¤	¤	¤	¤	¤	¤	¤	¤
Typical Applications	Channels	¤	¤		¤	¤		¤	
	Chemical Pit	¤	¤	¤	¤	¤	¤	¤	¤
	Chimney		¤	¤		¤	¤	¤	¤
	Concrete Plinth	¤	¤		¤	¤		¤	
	Cooling Towers	¤	¤		¤				
	Floors (concrete)	¤	¤		¤	¤		¤	
	Floors (steel)				¤				
	Intake Area	¤	¤	¤	¤	¤	¤	¤	¤
	Pipe Surface Internal		¤	¤	¤	¤		¤	¤
	Pipe Surface External	¤	¤		¤	¤		¤	
	Process Vessel	¤	¤	¤	¤	¤	¤	¤	¤
	Pump Base	¤	¤		¤	¤		¤	
	Sumps	¤	¤	¤	¤	¤	¤	¤	¤
	Storage Tanks	¤	¤	¤	¤	¤	¤	¤	¤
	Structural Steel	¤	¤	¤	¤	¤		¤	¤
	Tank Saddles	¤	¤		¤	¤		¤	

Immersion Temperature Guide

	501 CRSG	501 CRXL	501 ARXL	507 DWPU	511 UCEN	512 UCEN 90	512 UCEN 90XL	513 AREN
Acetic Acid 10%	X	X	X	20°C	30°C	50°C	50°C	50°C
Ammonia Hydroxide 30%	30°C	30°C	30°C	30°C	45°C	80°C	80°C	80°C
Benzene 100%	X	X	X	X	45°C	60°C	60°C	60°C
Brine	40°C	40°C	40°C	40°C	60°C	110°C	90°C	90°C
Butanol 100%	30°C	30°C	30°C	30°C	40°C	50°C	50°C	50°C
Chlorine (Wet)	X	X	X	30°C	X	X	X	X
Crude Oil	40°C	40°C	40°C	40°C	60°C	110°C	90°C	90°C
De-ionised water	40°C	40°C	40°C	30°C	60°C	110°C	75°C	75°C
Diesel	40°C	40°C	40°C	40°C	60°C	110°C	90°C	90°C
Ethanol 100%	20°C	20°C	20°C	20°C	45°C	60°C	60°C	60°C
Hydrobromic Acid 40%	X	X	X	X	40°C	50°C	50°C	50°C
Hydrocarbons	40°C	40°C	40°C	40°C	60°C	110°C	90°C	90°C
Hydrocarbons with steam	X	X	X	X	X	110°C	90°C	90°C
Hydrochloric Acid 20%	X	20°C	20°C	20°C	40°C	75°C	60°C	60°C
Hydrochloric Acid 36%	X	X	X	X	40°C	75°C	60°C	60°C
Hydrofluoric Acid 10%	X	X	X	X	X	X	X	X
Methanol	X	X	X	20°C	X	X	X	X
Naptha	40°C	40°C	40°C	30°C	50°C	110°C	90°C	90°C
Nitric Acid 10%	X	X	X	20°C	20°C	50°C	50°C	50°C
Nitric Acid 10-29%	X	X	X	X	40°C	50°C	50°C	50°C
Phosphoric acid 30%	20°C	20°C	20°C	20°C	30°C	60°C	50°C	50°C
Phosphoric acid 75%	X	X	X	X	45°C	60°C	50°C	50°C
Sodium Hydroxide 50%	40°C	40°C	40°C	40°C	60°C	110°C	75°C	75°C
Sulphur Dioxide with steam	X	X	X	X	X	140°C	X	X
Sulphuric Acid 20%	X	20°C	20°C	20°C	45°C	90°C	75°C	75°C
Sulphuric Acid 98%	X	X	X	X	45°C	75°C	60°C	60°C
Sodium Hypochlorite 15%	X	X	X	30°C	X	X	X	X
Toluene 100%	X	X	X	X	60°C	80°C	75°C	75°C
Xylene 100%	X	X	X	X	60°C	80°C	75°C	75°C
Water	50°C	50°C	50°C	50°C	60°C	110°C	90°C	90°C

***Please speak to the Resimac Technical Team for further information on immersion times (splash resistance, 72 hour short term immersion & long term continuous immersion).**

Chemical Protection Coatings - Product Specifications

	501	501	501	507	511	512	512 UCEN	513
Compressive strength Tested to ASTM D 695	649kg/ cm² (9200psi)	649kg/ cm² (9200psi)	680Kg/ cm² (9650psi)	552kg/ cm² (7400psi)	984kg/ cm² (13,950psi)	592kg/ cm² (8400psi)	901kg/ cm² (12800psi)	790kg/ cm² (11235psi)
Corrosion Resistance Tested to ASTM B117	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours
Flexural Strength Tested to ASTM D790	522kg/cm² (7400psi)	522kg/cm² (7400psi)	518kg/cm² (7350psi)	755kg/cm² (10700psi)	871kg/cm² (12300psi)	480kg/cm² (6800psi)	810kg/cm² (11500psi)	820kg/cm² (11600psi)
Hardness Rockwell R to ASTM D785	80	80	80	80	85	86	86	86
Sag Resistance	400 microns	400 microns	400 microns	400 microns	500 microns	1000 micron	500 microns	650 microns
Tensile Shear Adhesion Tested to ASTM D1002	194kg/cm² (2750psi)	194kg/cm² (2750psi)	190kg/cm² (2700psi)	169kg/cm² (2400psi)	208kg/cm² (2950psi)	188kg/cm² (2650psi)	201kg/cm² (2855psi)	196kg/cm² (2790psi)
Abrasion Resistance Taber CS17 1000 cycles 1kg	0.22cc loss	0.22cc loss	0.09cc loss	0.14cc loss	0.18cc loss	0.15cc loss	0.15cc loss	0.08cc loss
Base density gm per cm³	1.78	1.754	1.72	1.31	1.41	1.4	1.41	1.55
Activator density gm per cm³	1.05	1.03	1.03	1.22	1.02	1.05	1.05	1.05
Mixed product density gm per cm³	1.56	1.52	1.49	1.29	1.32	1.34	1.33	1.43
Dry heat resistance (□C)	200	200	200	120	200	170	200	200
Intermittent wet heat resistance (□C)	80	80	80	80	90	130	130	130
Immersion temperature resistance (□C)	60	60	60	70	60	110	90	90
Mixing ratio by volume	2.4:1	2:1	2:1	3:1	3:1	4:1	3.25:1	3.5:1
Mixing ratio by weight	4:1	3.5:1	3.4:1	3.25:1	4:1	5.34:1	4.35:1	5:1

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