



resimac Ltd.

Product Selection Guide

Corrosion Protection

2025 Product Selection Guide

PSG.CorrosionProtection.RV1.2025

Product Selector Guide

		501 CRSG	501 CRXL	502 FE SF	506	508 UPVU	509/510	524 DTM	530 HA 100	555
Characteristics	Epoxy	x	x	x	x				x	
	Polyurethane					x	x			
	Acrylic									x
	Solvent Free	x	x	x					x	
	Solvent Based				x	x	x			
	Water Based							x		x
	One Component						x		x	x
	Two Component	x	x	x	x	x		x		
	UV Stable					x				x
Curing	<2 Hours						x	x	x	x
	<8 Hours	x		x						
	>8 Hours		x		x	x				
Surface Preparation	Manual				x			x	x	
	Mechanical ST2/3	x	x	x	x	x	x	x	x	x
	Hydro-blasted	x		x	x		x	x	x	x
	Abrasive Blast SA2.5	x	x	x	x	x	x	x	x	x
	Damp Tolerant	x		x	x		x			

		501 CRSG	501 CRXL	502 FE SF	506	508 UPVU	509/510	524 DTM	530 HA 100	555
WFT	<150 Microns					x	x			
	150–350 Microns	x	x	x	x				x	
Ten	Dry 90°C (194°F)									x
	Dry 130°C (266°F)				x	x	x			
	Dry 180°C (356°F)							x		
	Dry 200°C (392°F)	x	x	x						
	Dry 240°C (464°F)								x	
Typical Application	Bridges	x	x	x	x	x	x			x
	Concrete Structures	x	x	x	x	x	x			x
	Pipework	x	x	x	x	x	x	x	x	x
	Pipelines	x	x	x	x	x	x	x	x	x
	Process Equipment	x	x	x	x	x	x	x	x	x
	Railings	x	x	x	x	x	x			
	Structural Steel	x	x	x	x	x	x			x

BS EN ISO 12944 Classification Guide

<i>Corrosion Category</i>	<i>Exterior</i>	<i>Interior</i>
C4 - High	Industrial areas and inshore area with moderate salinity	Chemical plants, swimming pools, ship repair yards
C5 - Very High	Industrial areas with high humidity & aggressive atmospheres	Buildings & areas with almost permanent condensation, and with high pollution
CX - Extreme	Inshore & offshore areas with high salinity & extremely high humidity	Buildings & areas with almost permanent condensation, and with high pollution

C4 - Coating Solutions

<i>Surface Preparation</i>	<i>Standard</i>	<i>Primer</i>	<i>No of Coats</i>	<i>DFT per Coat</i>	<i>Top Coat</i>	<i>No of Coats</i>	<i>DTF per Coat</i>	<i>Total DFT System</i>	<i>Life Expectancy</i>
Mechanical	ST2 - ST3	506	2	100 microns	508 UPVU	2	50 microns	300	17-20 Years
Mechanical	ST2 - ST3	501 CRSG	1	350 microns	508 UPVU	2	50 microns	450	20 Years
Hydro-blast	ST3	555	1	300 microns	555	1	300 microns	600	15-17 Years
Abrasive Blast SA2.5	SA2.5	506	2	100 microns	508 UPVU	2	50 microns	300	20-25 Years
Abrasive Blast	SA2.5	501 CRSG	1	350 microns	508 UPVU	2	50 microns	450	25-30 Years

C5 & CX – Coating Solutions

<i>Surface Preperation</i>	<i>Standard</i>	<i>Primer</i>	<i>No of Coats</i>	<i>DFT per Coat</i>	<i>Top Coat</i>	<i>No of Coats</i>	<i>DTF per Coat</i>	<i>Total DFT System</i>	<i>Life Expectancy</i>
Mechanical	ST2 – ST3	506	2	100 microns	508 UPVU	2	50 microns	300	15 Years
Mechanical	ST2 – ST3	501 CRSG	1	350 microns	508 UPVU	2	50 microns	450	17–20 Years
Hydro-blast	ST3	555	1	300 microns	555	1	300 microns	600	10–15 Years
Abrasive Blast SA2.5	SA2.5	506	2	100 microns	508 UPVU	2	50 microns	300	15–20 Years
Abrasive Blast	SA2.5	501 CRSG	1	350 microns	508 UPVU	2	50 microns	450	20 Years
Abrasive Blast	SA2.5	501 CRSG	2	250 microns	508 UPVU	3	50 microns	650	25 Years

Application of 530 HA100 on Hot Surfaces

<i>Surface Preperation</i>	<i>Surface Temperature</i>	<i>No of Coats</i>	<i>DFT per Coat</i>	<i>Total DFT System</i>	<i>Life Expectancy (Design Life – Maintance)</i>
Manual	100–130°C (212–266°F)	4	100 microns	400	5 Years
Manual	130–160°C (266–320°F)	4	100 microns	400	4 Years
Manual	160–200°C (320–392°F)	4	100 microns	400	3 Years
Manual	200–240°C (392–464°F)	4	100 microns	400	2 Years
Mechanical	100–130°C (212–266°F)	3	100 microns	300	8 Years
Mechanical	130–160°C (266–320°F)	3	100 microns	300	7 Years
Mechanical	160–200°C (320–392°F)	3	100 microns	300	6 Years

<i>Surface Preperation</i>	<i>Surface Temperature</i>	<i>No of Coats</i>	<i>DFT per Coat</i>	<i>Total DFT System</i>	<i>Life Expectancy (Design Life – Maintance)</i>
Mechanical	200–240°C (392–464°F)	3	100 microns	300	5 Years
Hydro-blast	100–130°C (212–266°F)	3	100 microns	300	10 Years
Hydro-blast	130–160°C (266–320°F)	3	100 microns	300	9 Years
Hydro-blast	160–200°C (320–392°F)	3	100 microns	300	8 Years
Hydro-blast	200–240°C (392–464°F)	3	100 microns	300	7 Years

Product Specification Guide

	<i>501 CRSG</i>	<i>501 CRXL</i>	<i>502 FE SF</i>	<i>506</i>	<i>508 UPVU</i>	<i>509/510</i>	<i>524 DTM</i>	<i>530 HA 100</i>	<i>555</i>
Compressive Strength <i>Tested to ASTM D 695</i>	649kg/cm ² (9200psi)	649kg/cm ² (9200psi)	649kg/cm ² (9200psi)	----	----	----	----	----	----
Corrosion Resistance <i>Tested to ASTM B117</i>	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours	5000 hours
Flexural Strength <i>Tested to ASTM D790</i>	522kg/cm ² (7400psi)	522kg/cm ² (7400psi)	522kg/cm ² (7400psi)	----	----	----	----	518kg/cm ² (7350psi)	----
Hardness <i>Shore D to ASTM D785</i>	80	80	80	80	78	78	----	86	----
Slump Resistance	Nil at 400 microns	Nil at 400 microns	Nil at 400 microns	Nil at 150 microns	Nil at 150 microns	Nil at 100 microns	Nil at 150 microns	Nil at 350 microns	Nil at 500 microns
Tensile Shear Adhesion <i>Tested to ASTM D1002</i>	194kg/cm ² (2750psi)	194kg/cm ² (2750psi)	194kg/cm ² (2750psi)	----	----	----	----	197kg/cm ² (2800psi)	----

	501 CRSG	501 CRXL	502 FE SF	506	508 UPVU	509/510	524 DTM	530 HA 100	555
Volume Capacity <i>cc per kg</i>	641	657	657	800	705	770	740	714	657
Base Density <i>gm per cm²</i>	1.78	1.75	1.75	1.32	1.51	----	1.4	----	----
Activator Density <i>gm per cm²</i>	1.05	1.03	1.03	1.03	1.03	----	1.08	----	----
Mixed Product Density <i>gm per cm²</i>	1.56	1.52	1.52	1.25	1.42	1.3	1.35	1.4	1.25
Dry Heat Resistance	200°C (392°F)	200°C (392°F)	200°C (392°F)	120°C (248°F)	130°C (266°F)	120°C (248°F)	180°C (356°F)	240°C (464°F)	90°C (356°F)
Mixing Ratio by Volume	2.4:1	2:1	2:1	3:1	4:1	----	5:1	----	----
Mixing Ratio by Weight	4:1	3.5:1	3.5:1	4:1	5.8:1	----	100:15	----	----



Epoxy, Polyurethane & Silicon coatings and repair material

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