

Duplex Coating Systems

Duplex: A term used to denote when two or more coating systems are used in conjunction, in order to create superior properties from the combined coating.

COATINGS AVAILABLE FOR USE IN DUPLEX SYSTEMS:

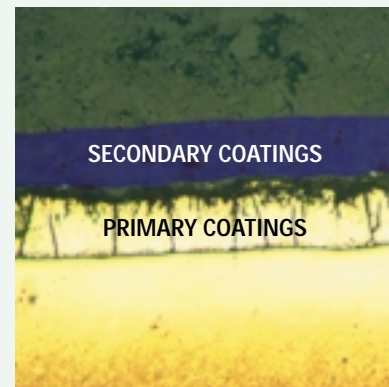
PRIMARY COATINGS

- Sherardizing
- Mechanical Plating
- Electroplating
- Delta Protekt
- Delta Tone
- Zinc Phosphating

See data sheets for more information on primary coatings.

SECONDARY COATINGS

- Delta Seal + GZ
- Delta Coll GZ
- Xylan 1070
- Xylan 5200 Series
- Molybdenum Disulphide
- Dorrtech B17



Secondary Coatings

(These coatings can be applied to various Primary Coatings, see Table).

Xylan 1070

A fluoreopolymer organic spray applied coating with coating thickness range of 70-100µm and heat cured at 200°C for 20 mins.

Xylan 5200 Series

A fluoreopolymer organic dip spin applied coating which is then cured at 200°C for 20 mins, coating ranges 10-15µm. Application used for Automotive Fasteners.

Delta Seal

An organic resin coating with approximately 2% PTFE to deliver reproducible torque values applied by either spray or dip spin technology. Coating deposits of 8-10µm to achieve salt spray resistance of 120 hours. Application used for automotive fasteners.

Delta Seal GZ

Same as Delta Seal but with an additional PTFE level to lower coefficient of friction. Typically applied to self drilling/self tapping screws.

Delta Coll GZ

An organic solvent based dip spin applied coating, cured at 80-100°C for 15 mins. Available in black or opaque, withstands salt spray test in excess of 300 hours on electroplated or mechanical plated substrates.

Delta Coll GZ

A coating system, dip spun or spray applied and cured at 80-100°C to reduce the coefficient of friction, improving wear resistance.

Dorrtech B17 (Silver)

Aluminium based organic coating system applied by dip spin and cured at 180-200°C for 15 mins to improve salt spray resistance up to 1000 hours (in conjunction with other base coatings).

For further information please contact: _____

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Primary Layer	Secondary Layer	Duplex Coating Thickness μm	Salt Spray (min) ASTM	Colours	Lubricants	Coefficient of Friction	Specifications /Approvals
Sherardizing	Delta Seal	25-55	1000	Various	Integral	>0.14	WIS 4-52-03
Sherardizing	Delta Seal GZ	25-55	1000	Various	Integral	0.08-0.14	
Sherardizing	Delta Coll	20-50	240	Black	Integral	>0.14	
Sherardizing	Xylan 1070	70-100	1000	Various	Integral	0.06-0.11	
Sherardizing	Xylan 5200	20-50	1000	Various	Integral	0.12-0.15	WIS 4-52-03
Sherardizing	Dorrtech B17	20-45	1000	Silver/Grey	Integral	0.18-0.19	
Sherardizing	Molybdenum Disulphide	30-45	96	Grey	Integral		
Mechanical Plating	Delta Coll	12-15	300	Black/Silver	Integral	>0.14	GME 00252B-V
Mechanical Plating	Xylan 5200	15-20	300	Various	Integral	0.12-0.15	
Mechanical Plating	Dorrtech B17	12-16	1000	Silver	Integral	0.13-0.19	FORD S427
Electro Zinc Plating	Delta Coll	10-15	300	Black/Silver	Integral	0.14	GME 00252B-V
Electro Zinc Plating	Xylan 1070	70-90	500	Various	Integral	0.08-0.10	
Electro Zinc Plating	Dorrtech B17	10-15	1000	Silver	Integral	0.18-0.19	FORD S427
Delta Protekt or Delta Tone	Delta Seal	12-16	500 - 700	Silver/Blue/Black	Integral	>0.14	
Delta Protekt or Delta Tone	Delta Seal GZ	12-16	500 - 700	Black/Silver	Integral	0.08-0.14	GME 00255F
Delta Protekt or Delta Tone	Dorrtech B17	10-15	1000	Silver	Integral	0.18-0.19	FORD S426
Zinc Phosphate	Delta Seal GZ	8-12	80	Black/Silver	Integral	0.08-0.14	
Zinc Phosphate	Xylan 1070	70-90	300	Various	Integral	0.06-0.11	
Zinc Phosphate	Xylan 5200	8-10	120-140	Black	Integral	0.12-0.15	

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