



## **DTD5555 & DTD80-161 APPROVED (MSRR9064) TWO PACK EPOXY COATING SYSTEM**

**IP CODE NUMBER:** IP9064 Range

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### **PRODUCT DESCRIPTION**

The IP9064 system of coating is a combination of 3 systems, which can be used individually or all three for total maximum protection. Each of the 3 individual "layers" are stand alone products in their own right. All three are two part, air drying products as follows:

**a) Pretreatment etch (or wash) primer**

A 2 part pretreatment acid based primer with filiform corrosion resistance for suitably prepared substrates. It chemically pretreats the surface to provide maximum adhesion and corrosion resistance. Suitable for use with synthetic and 2 pack epoxy and p.u. primers and a wide range of finishes. As a replacement alternative to several other products, it has similar properties of Def Stan 80-15, DTD 5555a, BSX 32 etc.

**b) Epoxy Strontium Chromate Primer**

A 2 part corrosion inhibitive epoxy resin based primer resistant to all normal aircraft operating fluids. Resistant to filiform corrosion if used over a). it is suitable for indoor or outdoor use and over-coatable with various epoxy, acrylic, and PU. topcoats. With similar properties to BSX33, DTD5555A, 5567A, 5580A, 5599 and MIL-P-23377 primers.

**c) 2 Part Air Drying Epoxy Finishes**

2 Part air drying epoxy finish for interior and exterior use. Used by Rolls Royce as both a decorative and protective coating, eg. Matt Black on fan frame composite casings, and an air drying marking paint. Initially available in the range of colours and finishes listed, this range will probably be increased to comply with customer demand. Resistant to abrasion, corrosion and most aircraft operating fluids and chemical, this range is also used for painting instruments and touching up our Textron grey stoving, and Pratt and Whitney Canada stoving engine systems. Similar to Mil 22750

The system has been designed to reduce confusion and therefore the least number of catalysts and thinners have been incorporated. The mixing ratios of base to catalyst may therefore vary. Released to DTD5555, MSRR9064, Def Stan 80-161, similar to MIL 22750, the range is approved by several other aerospace companies.

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### **APPROVALS**

DTD 5555;5567; DTD 80-161; MSRR9064; ( RPS 661 / 43 ; RPS 667/5 ; 761 ) BSX32; BSX33 type A; It is similar to Mil P 23377 and also Mil 22750

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### **PERFORMANCE**

Tested on magnesium, aluminium and steel to the following minimum specification. Actual performance will be in excess of the following:

Resistant to 100 hours salt water fog



Resistant to 100 hours dry heat at 180°C  
 Resistant to 100 hours at 150°C in lubricating oil  
 Resistant to 100 hours at 180°C in dry heat  
 Resistant to 100 hours with engine fuel  
 After 7 days air drying, resistant to Skydrol for 3 hours 70°C (160°F)  
 Resistant to 10 cycles 4 hours at 150°C (300°F) 20 hours in salt water fog  
 Resistant to temperatures of down to at least -40°C

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## PRODUCT RANGE

Listed below are a selection of the colours in this range; a full colour list is available upon request.

REFERENCE	OMAT	PRODUCT DESCRIPTION	MIXING RATIO
IP9064/CAT		Catalyst for strontium chromate primer and most topcoats	
IP9064-CAT-M		Catalyst for a small range of none full gloss topcoats	
IP9064/THIN		Universal thinner for strontium chromate primer and topcoats.	
IP9064/CLEAR	790A	Clear	1:1
IP9064/0000	795A	White gloss	2:1
IP9064/1100	7/30A	Gloss Blue (BS381C110)	2:1
IP9064/C1639		Boeing gloss grey	
IP9064/2170		Gloss Sea green to (BS381C217)	
IP9064/2200		Gloss Olive Green	2 ; 1
IP9064/2260		Middle Brunswick Green	
IP9064/3560	799A	Gloss golden yellow (BS381C356)	2:1
IP9064/5370R1		Gloss Signal red	
IP9064/5380	792A	Gloss Cherry Red (	2:1
IP9064/5920		International Orange Gloss BS 381c -0892	
IP9064/6270		Gloss light aircraft grey (touch up for Rockhard 690-152-004)	
IP9064/6272		Semi-matt light aircraft grey (touch up for Rockhard 690-152-004)	
IP9064/6310		Light Grey gloss	
IP9064/6930	789A	Gloss aircraft grey. (BS381C693)	2:1
IP9064/6933		Matt aircraft grey	2:1
IP9064/6970		Gloss Light Admiralty Grey (BS381C697)	
IP9064/7960		Dark Violet	
IP9064/10A03		Queen's flight Light Grey	2:1
IP9064/9000	788A	Gloss black. (BS381C000)	1:1
IP9064/9002		using 9064 Cat M - Eggshell lower than 20 Units	3:1
		using 9064 Cat – Eggshell (20-25 Units)	3:1
IP9064/9003	7/171A	Matt black. (BS381C000)	4:1
IP9064/9094		Light Grey to BS2660 colour card shade 9-094	
IP9064/8000	7/39A	Dull aluminium	1:1



IP9064/5380	792A	Gloss red(BS 381C - 538)	2:1
IP9064/8010	7/144A	Bright aluminium	1:1
IP9158B		Textron grey 16081-16099	
IP9180B		Textron blue	
IP9064/6362		Strontium chromate epoxy primer base	4:1
IP9064/4853		Etch primer base	1:1
IP9064/4854		Etch primer catalyst	1:1
IP9064/TDXL		Etch primer thinner	
IP9064/5555		Chromate primer - Dark Green (Designed to match RR stoving chromate primer)	4:1

**\*Other colours to order by negotiation\***

**\* NOTE: ALL ABOVE GLOSS READINGS ATTAINED USING A 60° HEAD**

### APPLICATION

Prior to application of the Primer thorough cleaning of the substrate and the application of a conversion coating is vital, this can be the systems' 2 pack chromate etch primer or other process.

The full system process is as follows:

Applied by spray, but can be brushed. Pot life 8 hours.

Etch Primer - air dry for 1 hour prior to over coating.

Epoxy Primer - air dry for 4 - 16 hours prior to over coating or flash off for 30 minutes and then stove at 125°C for 1 hour.

If the primer has been applied more than 72 hours in advance of being over coated, the surface must be wet flatted with 320 grade paper and have an additional light coat of primer applied to ensure the best inter-coat adhesion for the system.

Top Coats - Apply one double track coat to give a dry film thickness of 20-32 microns. Air dry for minimum 4 hours or flash off for 30 minutes and then stove at 125°C for 1 hour.

Full chemical protection is achieved after 7 days. ( air-dry at 18-20°C min)

### PHYSICAL PROPERTIES

See also individual data sheets for 2 pack chromate etch primer and 2 pack strontium chromate primer.

Mixing Ratio	As specified
Thinner	IP9064/Thin
Supply Viscosity	Ready for use
Colour	As required
Gloss Level	As required
Film Thickness	20-25 microns
Flash Point / Class / UN No	22-32°C / Class 3 / UN 1263
Pack Size	1 & 5 litre containers
Shelf Life	12 months in temperate climate



***This information is given in good faith for the guidance of users, but is without warranty or liability. Any queries should be referred to our technical department.***