

# Coatings for Military Vehicles and Equipment; Flight and Land Based



Indestructible have longed supplied coatings for the aerospace industries, both commercial and military. Additionally, we have been involved with developing and manufacturing coatings that meet the requirements of UK Defence Standards for land based systems, vehicles and equipment.

This listing details many of our coatings that meet the specification requirements for both flight and land-based use. For flight, these specifications are included in the British Standard-Aerospace BSX series; for land based the Defence Standard 80 series (Def Stan 80-xxx) are applicable. Also included are our latest products to the German specification TL 8010 series for Bundeswehr equipment, and products tested to the performance requirements of USA DOD "MIL" Specifications.

It should be noted that several Defence Standards are now declared as withdrawn or obsolete but can still be called up on legacy drawings or applications.

## Flight Systems

Specification	Description	Indestructible Product/Code	Notes
BS3X27	Cellulose Finishing Scheme for Aerospace Purposes	IP-30000 range	Various Colours
BSX31	Low Temperature Stoving Scheme for Aeronautical Purposes	IP-9064-xxxx range IP3-xxxx range	Specification withdrawn: Suggested replacement Def-Stan 80-161
BSX32	Pre-treatment Etch Primer for Aerospace Purposes – Chrome Salts Containing	IP9064-4853/IP9064-4854 2 pack chromate etch/wash primer	Now withdrawn – No REACH authorisation
BSX33	Two Component Primer for Aerospace Purposes – Anti-Corrosive - Chrome Salts Containing. Standard VOC	IP9064-6362 + IP9064-CAT 2 pack epoxy strontium chromate primer	For flight only. REACH authorisation until Sept. 2024
BS2X33	Two Component Primer for Aerospace Purposes – Anti-Corrosive - Chrome Salts Containing. Low VOC	IP3-6362 + IP3-CAT 2 pack low VOC epoxy strontium chromate primer	For flight only. REACH authorisation until Sept. 2024
BS2X34A/B	Two Component Polyurethane Finish for Aerospace Purposes	IP6-xxxx + IP6-CAT 2 pack low VOC Polyurethane Finishes – multiple colours and gloss levels	
BSX37	Intumescent Paint for Aerospace Purposes	IP9189A/B 2 pack Intumescent Coating	
BSX38	Heat Curing Paint Scheme for Aerospace Purposes: Type A – Primer for Magnesium Type B – Finish Coat	Type A: Chrome containing: 700-155-003 Type A: Chrome Free: IP985-6500 Type B: IP985-xxxx Finishes – Multiple Colours and Gloss Levels	700-155-003 for Flight only: REACH Authorisation until 2032.

# Coatings for Military Vehicles and Equipment; Flight and Land Based



Specification	Description	Indestructible Product/Code	Notes
BSX42	Pre-treatment Etch Primer for Aerospace Purposes – Chromate Free	CFIP15WP	To replace BSX32; Def-Stan 80-15

## Land Systems: UK Defence Standards

Def-Stan	Description	Indestructible Product/Code	Notes
80-4	Paint, Priming Zinc Dust		Standard withdrawn 2003
80-8	Paint System, Optical Instruments, Matt Black Stoving	Primer 1 Pack Finish 1 Pack Primer 2 Pack: IP9064-6500 Finish 2 Pack: IP9064-9003	Single pack and two pack systems available
80-9	Paint, Aluminium, Flame Resisting, Air Dry	IP80-9 Air Dry Aluminium Flame Resistant Paint	MOQ: 2 x 5 litres
80-11	Paint, Aluminium, Flame Resistant, Stoving, Spraying	IPHT Range	2 component product, will air-dry
80-14	Paint Remover, Dichloromethane, Water Rinseable Non-Aerospace Use	300-100-001 Immersion System IPstrip 500: Brushable	Specifies DCM, no longer available: listed products DCM free
80-15	Paint, Pre-Treatment Primer (Etching Primer)	CFIP15WP A/B	Standard withdrawn: replaced initially by BSX32 and now BSX42
80-16	Paint Remover, Dichloromethane, Water Rinseable	300-100-001 Immersion System IPstrip 500: Brushable	Specifies DCM, no longer available: listed products DCM free
80-24	Lacquer Acrylic, Type QX	IP8024 Non-Ferrous Lacquer	QX testing not now available
80-25	Paint, Ammunition Semi-gloss Stoving	IP80-25-xxxx Paint – Ammunition System Stoving Semi-Gloss	Range of colours
80-27	Paint, Ammunition Semi-Gloss Air Drying	IP80-27-xxxx Air Dry Semi-Gloss Finish to Def-Stan 80-27	Range of colours
80-35	Varnish Epoxide Stoving - QX	IP80-35 Clear Stoving Varnish – Ammunition	QX testing not now available

# Coatings for Military Vehicles and Equipment; Flight and Land Based



Def-Stan	Description	Indestructible Product/Code	Notes
80-38	Thinners for: Paint Epoxy Multi-Pack, Cellulose Nitrate Paints, Dopes and Lacquers		
80-44	Lacquer – Shellac, Type QX Various Solids Content (6%; 11%; 14.5%; 20%; 30%; 40%)	IP80-44-11 Lacquer Shellac 11%	QX testing not now available. Standard Withdrawn 2002
80-50	Paint, Finishing General Service Gloss Brushing/Spraying	Not Applicable: See Listing under Def-Stan 80-54	Standard withdrawn 1998, replaced by Def-Stan 80-54
80-54	Paint, Finishing General Service Fuel Resistant – Gloss Air Dry	IP80-54-xxxx Gloss Finishing Paint (colour)	Range of colours
80-55	Paint, Finishing Ammunition General Service Quick Dry Semi-Gloss	IP80-55-xxxx A/D Semi-Gloss (colour)	Range of Colours
80-56	Paint, Stoving Finish for Small Arms Black Epoxide Spraying	IP8056-9003 Stoving Epoxy Matt Black	
80-59	Paint System, Hard Gloss Enamel – Undercoat + Finish Brushing/Spraying	IP80-59-xxxx Air Dry Gloss (colour)	Range of colours
80-63	Varnish, Marine and General Purpose Brushing	IP80-63 (32031)	
80-65	Paint, Finishing for the Interior of Jerrycans		Available only in colour BS.381C - 446
80-67	Solvent, Cleaning, for Painting Equipment		
80-68	Paint, Marking	IP80-68-xxxx QAD Marking Paint (colour)	Range of colours
80-92	Lacquer, Phenol Formaldehyde Stoving Type QX, Grades 22%; 30%, 39%. Dipping/Spraying	27520: Clear 22% 27521: Clear 30% 27523: Red 22% 27524: Red 30%	QX testing not now available. Standard Withdrawn 2002
80-109	Varnish, RD1177 for Armaments – Type QX	IP80-109 IP80-109 Blue	QX testing not now available.
80-123	Paint, Priming Zinc Phosphate Stoving, Spraying/Dipping	IP80-123-0003 White IP80-123-3583 Lt Buff IP80-123-627 Grey	
80-126	Paint, Priming Zinc Phosphate Air Drying, Spraying/Brushing/ Dipping	IP80-126-2163 Green IP80-126-3581 Lt Buff IP80-126-627 Grey	

# Coatings for Military Vehicles and Equipment; Flight and Land Based



Def-Stan	Description	Indestructible Product/Code	Notes
80-138	Varnish, Polyurethane, Multi-Pack Types: Matt & Gloss	IP-80-138-0 Gloss	
80-152	Paint System, Epoxide Stoving Types: Semi-Gloss/Gloss	IP-80-152-365-P/R1 Vellum Primer IP80-152-xxx0 Finish Gloss (Colour) IP80-152-xxx1 Finish Semi-Gloss (Colour)	Main topcoat colour to BS.381C 697.
80-158	Paint Finish Erosion Resisting for Aircraft, Polyurethane Multi-Pack, VOC Compliant	IP8-158-PART A IP80-158-PART B	
80-161	Paint Finishing Spraying Epoxy Multi-Pack	IP80-161-xxxx Standard VOC IP9064-xxxx Standard VOC IP3-xxxx Low VOC	Range of colours and gloss levels
80-175	Varnish, Ammunition, Stoving Type QX Class A: Epoxy Ester Class B: Silicone Alkyd Class C: Tung Oil Phenolic Brushing/Spraying/Dipping	IP80-175 (Class C)	QX testing not now available. Standard Withdrawn 2002
80-206	Original specifications for vehicle finishing system. 2 pack epoxy primers, including zinc chromate for aluminium, and 2 pack polyurethane finishes, standard and CARC. Specifications withdrawn and replaced by Def-Stan 80-225.		
80-207			
80-208			
80-209			
80-216	Paint, Filler Spraying, Epoxy Multi-Pack	IP3-00015WHT White IP3-00015GRY Grey IP3-00015BLK Black	Uses Catalyst IP3-CAT or IP3-CAT -S
80-217	Corrosion Preventive Compound: Soft Film, Cold Application. NATO Code: C-614. Joint Services Designation: PX1	IP80-217 Corrosion Preventive Compound PX1 IP80-217-GREEN Green Tinted Corrosion Preventive Compound	
80-225	Paint System for Military Vehicles, Multi-Pack Near IRR and Gloss Non-IRR – Chemical Agent Resistant – Non Aircraft Use, Low VOC  Replaces Def-Stans: 80-206; 80-207; 80-208; 80-209	IPLVPF1: Type 1 Primer for Ferrous Parts IPLVPF2: Type 2 Primer for Non-Ferrous Parts IPLVTCGL-xxx0: Gloss Topcoat (Colour) IPLVTCCARC-xxx3: CARC Finish Matt (Colour)	IPLVPCAT: Catalyst for Primers IPLVTC-CAT: Catalyst for Gloss Topcoats IPLVCARC-CAT: Catalyst for CARC Topcoats

# Coatings for Military Vehicles and Equipment; Flight and Land Based



## Land Systems: European Standards

Coatings for Bundeswehr Equipment Called up in RheinMetall Landsysteme and RheinMetall MAN Military Vehicles Specifications		
Specification	Description	Indestructible Product/Code
TL 8010-0001	<b>Primers</b> Class I; Type 4: 1 Pack Stoving Epoxy Class II; Type 1: 2 Pack Polyurethane Class II; Type 4: 2 Pack Epoxy  Class III; Type 1: A/D Alkyd	IP985-6500: Cr Free Stoving Epoxy Primer IP6-6500: Cr Free 2 Pack PU Primer IPLVPF1: Cr Free 2 Pack Epoxy Primer for Ferrous Metals IPLVPF2: Cr Free 2 pack Epoxy Primer for Non-Ferrous Metals IP1757-R1 QAD Primer Cr containing
TL 8010-0002	<b>Topcoats</b> Class I; Type 4: 1 Pack Stoving Epoxy Class II; Type 2: 2 Pack Polyurethane  Class II; Type 4: 2 Pack Epoxy Class III; Type 1: 1 Pack Air Dry Alkyd  Class III; Type 2: 1 Pack Stoving  Class III; Type 3: 1 Pack AD Acrylic	IP985-xxxx Epoxy Stoving (Colour/Gloss) IPLVTCGL-xxxx 2 Pack PU Gloss Finish IPLVTCCARC-xxx3 2 Pack PU Matt CARC Finish  IP3-xxxx 2 Pack Epoxy (Colour/Gloss) IP41-xxxx QAD Finish (Colour/Gloss) IP32-xxxx QD Finish (Colour/Gloss) IP38-xxxx Alkyd/Amino Stoving Finish (Colour/Gloss) IP33-xxxx 1 Pack acrylic Finish (Colour/Gloss)
TL 8010-0012	<b>Primer – Zinc Dust Coating</b> Class B; Type 4	≥65% Zinc Dust 2 pack epoxy Primer

## Flight and Land Systems: USA DOD “MIL” Specifications

As Indestructible products are manufactured in the UK, they cannot be released to USA “MIL” Specifications. The products listed below have, however been tested and approved to the relevant “MIL” specification and are therefore sold as “Meeting the Performance Requirements”

Specification	Description	Indestructible Product/Code
MIL-PRF-22750	<b>Coating, Epoxy High Solids</b> <b>Type I:</b> Standard Formulation; VOC 340 grams/litre <b>Type II:</b> VOHAP free; VOC 340 grams/litre <b>Type III:</b> Direct to metal, VOHAP free; VOC 340grams/litre <b>Class H:</b> High Solids, Solvent Borne <b>Class W:</b> Water Based <b>Grade A:</b> Weather Resistant <b>Grade B:</b> Interior Coating	<b>Type I; Class H; Grade B</b>  IP3-xxxx 2 Pack Low VOC Epoxy Finish (colour)  IP715 A/B 2 Pack Low VOC Epoxy Finish Silver

# Coatings for Military Vehicles and Equipment; Flight and Land Based



Specification	Description	Indestructible Product/Code
MIL-PRF-23377	<b>Primer Coatings; Epoxy; High Solids</b> <b>Type I:</b> Standard Pigments <b>Type II:</b> Low IRR Pigments <b>Class C1:</b> Barium Chromate Corrosion Inhibitor <b>Class C2:</b> Strontium Chromate Corrosion Inhibitor <b>Class N:</b> Non-Chromate Corrosion Inhibitor	<b>Type I; Class C2</b> IP3-6362; 2 Pack Epoxy Low VOC Strontium Chromate Primer (Flight Use Only)  <b>Type 1; Class N</b> IP3-6500; 2 Pack Epoxy Low VOC Chrome Free Primer IP3-6700; 2 Pack Epoxy Low VOC Chrome Free Primer, Fluid Resistant  <b>Type II; Class N</b> IP3-9IRR 2 Pack Epoxy Low VOC Chrome Free Primer: Low IRR
MIL-PRF-85285	<b>Coating; Polyurethane Aircraft &amp; Support Equipment</b> <b>Type I:</b> Aircraft Application; VOC 420 grams/litre <b>Type II:</b> Support Equipment; VOC 340 grams/litre <b>Type III:</b> Aircraft & Support Equipment; VOC 50 grams/litre <b>Type IV:</b> Aircraft Application with Extended Weatherability; VOC 420 grams/litre <b>Class H:</b> High Solids, Solvent Borne <b>Class W:</b> Water Borne	<b>Type I; Class H</b> IP6-xxxx 2 Pack Low VOC Polyurethane Finish (Gloss/Colour)  <b>Type IV; Class H</b> IP6-xxxx 2 Pack Low VOC Polyurethane Finish (Gloss/Colour)