

	Supplier Guideline for Paint Specification and Colour	KD No.	ENG-KD-019
		Version	3.0
		Issued:	30/07/2025

1.0 Purpose/Scope

This knowledge document sets out the requirements for the application of Paint and Colour to ANZ Suppliers of painted Parts and Assemblies to the L400P2 project, when faced with a *legacy drawing* which specifies *TL / RAL colours*.

The document directs all suppliers to deviate from this specification of paint colour, with no formal deviation being required, but conform to the directives set out in 4.5.

2.0 Definition

ADF	Australian Defence Force
ANZ	Australia and New Zealand
APAS	Australian Paint Approval Scheme
BOXER CRV	Boxer Combat Reconnaissance Vehicle – and its' variants
BUNDESWEHR	German Armed Forces
CoA	Commonwealth of Australia
CSIRO	Commonwealth Scientific and Industrial Research Organisation
KMW	Krauss-Maffei Wegmann, Germany [A company of KNDS]
L400P2	Land 400 Phase 2; program to deliver the Boxer CRV to CoA
RDA	Reinmetall Defence Australia
RLS	Rheinmetall Land Systems – Germany
TL	German Standards for application of Paint and Colour of Defence products
WIWeB	German Defence Science Institute for Materials and Operating Materials

3.0 Roles and Responsibilities

Procurement Team	Ensure this document is distributed with all request for quotation and purchase orders
Suppliers	Abide by all directives within this document, unless a separate arrangement is agreed to by both parties via an approved deviation
Supplier Quality Team	Ensure Supplier compliance to the directives contained in this document

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4.0 Content

4.1 Background - Germany

- 4.1.1 The German government, through their research agency WIWeB, created standards which set out the requirements for application of paint and colour for the Bundeswehr.
- 4.1.2 The standards are numerous, are numbered either TL A-0xxx, or TL 8010-0xxx, and are collectively referred to as TL.
- 4.1.3 Two companies contribute to the Design and Manufacture of the Boxer CRV. These are KMW – part of KNDS, and RLS.
- 4.1.4 KMW created a group of internal specifications; 2360-000000.xx.x to address the above TL standards.
- 4.1.5 RLS created internal specification; WN 2.001 to address the above TL standards.
- 4.1.6 A complete list of these standards is included in Associated Documents below

4.2 Land 400 Phase 2 – Australia

- 4.2.1 Following the successful award of contract from the CoA to RDA for the L400P2 project, RLS created specification SPC 501C000000.001.0, to extend both WN 2.001 and 2360-000000.xx.x in order to comply APAS. Annex document SPC 501C000000.001.1 is identical to the former and contains only the English language portion.
- 4.2.2 APAS specification; AP-S0502, was created by the CSIRO on behalf of the CoA to define both application of paint and colour as required by the ADF for vehicles and equipment.
- 4.2.3 Our contract with the CoA limits the use of only certified APAS paints. See listing here - [Certified APAS Products – Australian Paint Approval Scheme](#)

4.3 Legacy Drawings and Bill of Materials

- 4.3.1 A Legacy Drawing or Bill of Materials is one which has been created by RLS or KMW for the BOXER CRV project, prior to and without any consideration for, the L400P2 project, nor the requirements of the CoA for paint as expressed in the APAS standards.

All legacy drawings of parts requiring paint, will include a label calling out the TL specification and colour requirement. Examples being;

RLS Drawing:

“Coated according to WN 2.001”

Coating according to WN 2.001
 Section: 5.3.1-5.3.3 u. 5.3.5
 Color: RAL 1013 – HR (perl white)
 Thread and with — . . . — . . . — . . .
 marked surfaces free of coating

KMW Drawing:

“Coated according to 2360-000000.xx.0”

Painting according to 2360-000000.02.0
 — . . . — marked areas,
drill holes paint-free
Inner surface paint-free

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- 4.3.2 All Australian and New Zealand supplier of painted parts and assemblies, should refer primarily to SPC 501C000000.001.0 or its' annex, to direct their application of paint, due to its' statements;


Page 8, "Note:

For entries "Coated according to WN 2.001" the corresponding section of SPC 501C000000.001.0 can be used.

For entries of coating system 2360-000000.xxx.0, the corresponding section from SPC 501C000000.001.0 must be selected.

This is possible because the 2360-000000.xx.0 is also an approved coating system by the WIWeB, which is almost identical to the WN 2.001."

In **ALL INSTANCES**, the listed TL colour is to be replaced with the equivalent APAS colour. Which are;

TL - Colours (RAL)		REPLACE WITH:	APAS - Colours (SAE AMS STD 595)	
Name	Colour No.		Colour No.	Name
Bronzegrün / Bronze Green	6031-HR/F9		34088	Camouflage Green (Olive Drab)
Perlweiß / Oyster White	1013-HR		37875	White
Schwarz / Black	9005		37038	Black

4.4 Australian Drawings and Bill of Materials

4.4.1 Any drawing which has been created specifically for the purpose of the L400P2 project, will call out the APAS specification and colour. Example being;

Beschichtung nach	SPC 501C000000.001.0
Coating IAW	
Abschnitt	XXX-XXX u. XXX
Paragraph	
Farbton	green 34088
Color	
Gewinde und mit	— . . . — . . . — .
gekennzeichnete Flächen beschichtungsfrei	
Threads and marked areas	— . . . — . . . — .
free of paint	

4.4.2 In **ALL INSTANCES** the listed APAS colour is to be employed as specified.

4.5 ANZ supplier notifications

4.5.1 For all parts affected as described, the ANZ supplier of painted parts needs to undertake two (2) actions;

1. Send a list of all affected part numbers to;
specification@rheinmetall.com.au - with the subject heading; '*drawing requests non APAS coating.*'
2. Include notation to the delivery documentation stating; 'APAS approved paint & colour employed in lieu of specified TL-RAL colour'

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4.6 ANZ suppliers of dual source parts

- 4.6.1 While it is preferred that all painted parts arrive in Australian White (37875), there is flexibility should Australian suppliers be required to source some painted components from Europe, in order to meet the production schedule demands of RDA.
- 4.6.2 Anticipating this, RDA received approval from the CoA, to deliver both;
- *parts painted to either TL or APAS standards*
 - *white painted parts in either German white (RAL 1013-HR) or Australian white (37875)*
- 4.6.3 This flexibility extends to both; single parts, or parts of an assembly, and extends to parts of the same assembly being from the different specification or white.
- 4.6.4 In no instance is a waiver or deviation required.

5.0 Links

All APAS documents and specifications are available for download from the APAS website:

<https://vs.csiro.au/apas/>

<http://www.apas.gov.au/>

<https://vs.csiro.au/apas/list-of-certified-products/>

<https://vs.csiro.au/apas/apas-participants/>

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6.0 Associated Documents

TL A-0003	Release of coating systems for Bundeswehr equipment. – land equipment
TL A-0033	Commercially available coating of Bundeswehr vehicles with lacquers – land equipment
TL A-0103	Surface protection for Bundeswehr equipment solvent-containing and water-thinnable – industrial
TL 8010-0001	Primer coat materials for Bundeswehr equipment – industrial
TL 8010-0002	Top coat materials for Bundeswehr equipment – industrial
TL 8010-0012	Primer coat materials for Bundeswehr equipment, zinc-dust coating materials industrial
TL 8010-0044	Primer for metal pretreatment, chromate-free – industrial
2360-000000.01.0	Exterior paint coating
2360-000000.02.0	Interior paint coating
2360-000000.03.0	Painting of mounted parts in engine compartment
2360-000000.04.0	Marking of lubrication points
2382-000000.06.0	Coating of components of the heating system
2360-000000.10.0	Paint for auxiliary and training equipment
2360-000000.11.0	Powder coating
2360-000000.12.0	Additional camouflage pattern coat
2360-000000.13.0	Coating for heavy steel
WN_2.001	Coating Systems
SPC 501C000000.001.0	Paint Coating Specification APAS According to WN 2.001
SPC 501C000000.001.1	Annex - Paint Coating Specification APAS According to WN 2.001
AP-S0502	Disruptive Pattern Camouflage Polyurethane Finishing System for Vehicles and Equipment
AP-D152	APAS Participating Manufacturers and Resellers
SAE AMS STD 595	Colors Used in Government Procurement
L400-ACQ-1909487	Request to use Alternative Paint Standard Block II v3.1
AFV L400-2_OUT_2022_65 – 220222	Commonwealth Approval of Alternate Paint Standard for Block II

7.0 Revisions

Revision	Description	Date
1.0	Initial Release	04/04/2025
2.0	Inclusion of section 4.6	30/07/2025
3.0	Revision of section 4.6	30/07/2025