

0673P INTERPON POWDER COATINGS

Branded worksection

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Worksection abstract

This worksection *Template* is applicable to the off-site application of thermoset powder coating systems for architectural applications, and to exterior and interior buildings elements. The primary referenced standards are AS 3715 (2025), AAMA 2603 (2022), AAMA 2604 (2022) and AAMA 2605 (2022) for aluminium and aluminium alloy substrates and AS 4506 (2024) for other metal substrates.

How to use this worksection

Customise this worksection *Template* for each project. See [A guide to NATSPEC worksections \(www.natspec.com.au\)](http://www.natspec.com.au) for information on *Template* structure, word styles and completing a worksection.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections, including:

- 0183 *Metals and prefinishes.*
- 0432 *Curtain walls.*
- 0451 *Windows and glazed doors.*
- 0453 *Doors and access panels.*
- 0454 *Overhead doors.*
- 0456 *Louvre windows.*
- 0457 *External screens.*
- 0524 *Partitions - glazed.*
- 0525 *Cubicle systems.*
- 0552 *Metalwork - fabricated.*

Documenting this and related work

You may document this and related work as follows:

- Adapt the schedules in SELECTIONS to a Finishes schedule to your office documentation policy.

See NATSPEC TECHnote DES 010 for information on atmospheric corrosivity categories.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

Search acumen.architecture.com.au, the Australian Institute of Architects' practice advisory subscription service, for notes on the following:

- Guarantees and warranties.

Specifying ESD

The following may be specified by including additional text:

- Coating systems where powder overspray is recovered and recycled back into the system.
- Coatings systems using energy efficient resin curing methods to reduce energy requirements, through more efficient curing ovens or thinner film coatings.
- Coatings systems incorporating bio-resins instead of petrochemical-based resins.

Refer to NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

AkzoNobel Australia is a leading global paints and coatings manufacturer, providing innovative and sustainable solutions across industrial, architectural, automotive, marine, protective, and powder coating segments. Committed to excellence, sustainability, and customer collaboration, AkzoNobel leverages advanced technologies and extensive industry expertise to deliver durable, high-performance finishes tailored to meet diverse market needs. Dedicated to enhancing and protecting surfaces, AkzoNobel continuously sets industry benchmarks in quality, innovation, and environmental responsibility.

1.1 RESPONSIBILITIES

General

Requirement: Provide Interpon powder coating systems to substrates, as documented.

Documented is defined in 0171 General requirements as meaning contained in the contract documents.

1.2 COMPANY CONTACTS

Interpon technical contacts

Website: www.interpon.com/au/en/contact

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- 0171 General requirements.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. 0171 General requirements references the 018 Common requirements subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 STANDARDS

General

Application to aluminium and aluminium alloy substrates for architectural applications: To AAMA 2603 (2022), AAMA 2604 (2022) and AAMA 2605 (2022), as appropriate, and AS 3715 (2025).

Architectural applications include extruded sections for the following:

- Windows and doors.
- Balustrades.
- Other external elements, such as louvres and grilles.

Application to metal substrates other than aluminium for architectural applications: To AS 4506 (2024).

AS 4506 (2024) Table 2.2.4(A) provides surface preparation and powder coating system recommendations for common substrates based on the atmospheric corrosivity category. The durability requirements for topcoats in AS 4506 (2024) Table 2.2.4(A) are nominated in AS 4506 (2024) Table 2.2.4(B).

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Website: www.interpon.com/au/en/resources

1.6 INTERPRETATION

Definitions

General: For the purposes of this worksection, the following definitions apply:

- Powder coating: The process of preparing, applying, fusing and curing a thermoset powder coating material to a substrate.
- Thermoset powder coating: A mixture of finely ground particles of pigment and resin sprayed onto a prepared substrate. Charged powder particles adhere to electrically grounded surfaces until heated and fused into a smooth coating in a curing oven.
- Substrate: The surface to which a material or product is applied.

Edit the Definitions subclause to suit the project or delete if not required. List alphabetically.

1.7 TOLERANCES

General

Requirement: To Interpon's recommendations.

1.8 SUBMISSIONS

Products and materials

Coating manufacturer: Submit the following details at least 3 weeks before fabrication:

- Recommended coating system for the nominated service condition.
- Brand name.
- Storage and handling recommendations.
- Product data sheets.
- Maintenance recommendations.

Environmental Product Declaration (EPD): Submit an EPD to ISO 14025 (2006) with a Product Category Rule (PCR), used to calculate environmental impact indicators, to EN 15804 (2012) or ISO 21930 (2017).

EPDs are available for Interpon D1000, Interpon D2000 and Interpon D3000 powder coating ranges. Nominate which products are required to have an EPD either here or in PRODUCTS.

An EPD is an independently verified and registered document that quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function. EPDs can support carbon emission reduction by allowing a fair and equitable comparison of the impacts of different materials and products within specific product categories.

Samples

Requirement: Submit samples to PRODUCTS, **GENERAL**, Samples.

Subcontractors

Specialist applicators: Submit name and contact details of proposed Interpon accredited applicators.

Evidence of experience: [complete/delete]

Delete if specialist applicator details are not required.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to **SUBSTITUTIONS** in 0171 General requirements.

SUBSTITUTIONS in 0171 General requirements sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

Samples

Requirement: Provide labelled samples of each coating system on representative substrates, showing surface preparation, colour, gloss level, texture and physical properties.

Coated samples schedule

Substrate	Coating system	Colour/texture	Number of samples	Sample size

Storage and handling

General: To AS 3715 (2025) Appendix D for powder coated aluminium and AS 4506 (2024) Appendix D for all other powder coated materials.

2.2 MATERIALS**Performance**

Products: Conform to the **Interpon powder coatings products table**.

Interpon powder coatings products table

Interpon product	EPD	Application	Powder coatings standards
Interpon Redox APA MetaPrep	Not available	Primer/barrier primer	AS 4506 (2024)
Interpon Redox PZ 560	Not available	Primer	AS 4506 (2024)
Interpon Redox PZ 790	Not available	Primer	AS 4506 (2024)
Interpon 200	Not available	Topcoat	AS 3715 (2025) AS 4506 (2024) AAMA 2603 (2022)
Interpon D1000	Available	Topcoat/finish coat	AS 3715 (2025) AS 4506 (2024) AAMA 2603 (2022)
Interpon D2525	Available	Basecoat/topcoat/finish coat/grain application	AS 3715 (2025) AS 4506 (2024) AAMA 2604 (2022)
Interpon D2525 STF	Available	Basecoat/grain application	AS 3715 (2025) AS 4506 (2024) AAMA 2604 (2022)
Interpon D3020 Fluoromax® Gen II	Available	Topcoat/finish coat	AS 3715 (2025) AS 4506 (2024) AAMA 2605 (2022)

The **Interpon powder coating products table** lists products that are part of a powder coating system documented in SELECTIONS, **INTERPON POWDER COATING SYSTEMS**. See SELECTIONS for available powder coating systems and nominate systems required in the **Interpon powder coating systems schedule**.

3 EXECUTION**3.1 PREPARATION****Substrate pre-treatment**

Requirement: To Interpon's recommendations and the following:

- Powder coating to aluminium: To AAMA 2603 (2022), AAMA 2604 (2022) and AAMA 2605 (2022), as appropriate, and AS 3715 (2025) Appendix G.
- Powder coating to metals, other than aluminium: To AS 4506 (2024) Appendix I.

3.2 APPLICATION**General**

Requirement: To Interpon's recommendations.

See AkzoNobel's *Interpon powder coating guidance note 10 (2024)* for guidance on the application of metallic and effect powder coatings.

3.3 COMPLETION**Cleaning**

Aluminium architectural applications: Clean completed assembly to AS 3715 (2025) Appendix C.

Metal, other than aluminium, architectural applications: Clean completed assembly to AS 4506 (2024) Appendix E.

Cleaning and maintenance is commonly a condition of warranty. Contact the coating manufacturer.

These standards recommend various frequency of cleaning varying from monthly to six monthly depending on the local environment.

4 SELECTIONS

Schedules are a tool to specify properties required for products or systems. If the principal permits documentation of the product or system by proprietary name, some of the properties may be unnecessary and can be deleted. Document the product or system's location or application here and/or on the drawings with a matching project code. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 INTERPON POWDER COATING SYSTEMS

To achieve the required performance of coating systems, make sure Interpon accredited applicator's are used. Refer to Interpon's care and maintenance documents for cleaning requirements. Contact Interpon for more information including on project suitability.

Decorative timber-like finish

System name	Basecoat	Grain application	Atmospheric corrosivity category to AS 4312 (2019)	Warranty period (years)
Interpon D2525 ezy HD ² decorative timber-like finish (BCA Class 1 to 10)	Interpon D2525	Interpon D2525	C1 to C5	Film integrity: 25 Colour: 15
Interpon D2525 STF decorative timber-like finish (BCA Class 1 to 10)	Interpon D2525 STF	Heat-transfer decoration process (sublimation transfer film)	C1 to C5	Film integrity: 25

The Interpon decorative timber-like finish powder coating systems above are suitable for use on aluminium substrates in architectural applications. They may be used for internal and external applications in buildings of any height.

Contact Interpon for warranty confirmation.

Single-coat systems

System name	Finish coat	Atmospheric corrosivity category to AS 4312 (2019)	Warranty period (years)
Interpon D1000 residential (BCA Class 1 and 10)	Interpon D1000	C1 to C4	Film integrity: 10 Colour: 10
Interpon D2525 commercial, mixed use and multi-density residential (BCA Class 1 to 10)	Interpon D2525	C1 to C5	Film integrity: 25 Colour: 15
Interpon D2525 enclosed swimming pool	Interpon D2525	C4	Film integrity: 25 Colour: 15
Interpon D3020 commercial, mixed use and multi-density residential (BCA Class 1 to 10)	Interpon D3020 Fluoromax Gen II	C1 to C5	Film integrity: 30 Colour: 20

Interpon D1000 residential (BCA Class 1 and 10):

- Substrate: Architectural aluminium.
- Location: 3 storey buildings maximum. Internal and external (> 100 m from the shoreline or coast).

Interpon D2525 commercial, mixed use and multi-density residential (BCA Class 1 to 10):

- Substrate: Architectural aluminium.
- Location: All building heights. Internal and external.
- Suitable where super durable powder grade is required.

Interpon D2525 enclosed swimming pool:

- Substrate: Architectural aluminium excluding perforated panels.
- Location: Internal aquatic microclimates (> 2 m from the splash zone).

Interpon D3020 commercial, mixed use and multi-density residential (BCA Class 1 to 10):

- Substrate: Architectural aluminium.
- Location: All building heights. Internal and external.
- Suitable where ultra durable powder grade is required.

Perforated aluminium finishes

System name	Primer	Topcoat	Atmospheric corrosivity category to AS 4312 (2019)	Warranty period (years)
Interpon 200 perforated aluminium C1 to C4 (BCA Class 1 to 10)	Interpon Redox APA MetaPrep Primer	Interpon 200	C1 to C4	Film integrity: 10 Colour: 10
Interpon D2525 perforated aluminium C1 to C3 (BCA Class 1 to 10)	Nil	Interpon D2525	C1 to C3	Film integrity: 25 Colour: 15
Interpon D2525 perforated aluminium C4 to C5 (BCA Class 1 to 10)	Interpon Redox APA MetaPrep Primer	Interpon D2525	C4 to C5	Film integrity: 25 Colour: 15

Interpon 200 perforated aluminium C1 to C4 (BCA Class 1 to 10):

- Substrate: Perforated architectural aluminium.
- Location: All building heights. Internal and external.
- Graffiti resistant.

Interpon D2525 perforated aluminium C1 to C3 (BCA Class 1 to 10):

- Substrate: Perforated architectural aluminium.
- Location: All building heights. Internal and external.

Interpon D2525 perforated aluminium C4 to C5 (BCA Class 1 to 10):

- Substrate: Perforated architectural aluminium.
- Location: All building heights. Internal and external.

Interpon Metaplex system

System name	Primer	Topcoat	Atmospheric corrosivity category to AS 4312 (2019)	Warranty period (years)
Interpon D1000 Metaplex domestic residential (BCA Class 1 and 10)	Interpon Redox APA MetaPrep Primer	Interpon D1000	C1 to C4	Film integrity: 10 Colour: 10
Interpon 200 Metaplex (BCA Class 1 to 10)	Interpon Redox APA MetaPrep Primer	Interpon 200	C1 to C4	Film integrity: 10 Colour: 10
Interpon D2525 Metaplex (BCA Class 1 to 10)	Interpon Redox APA MetaPrep Primer	Interpon D2525	C1 to C4	Film integrity: 15 Colour: 15

Interpon D1000 Metaplex domestic residential (BCA Class 1 and 10):

- Substrates: Hot dip galvanized steel, mild steel, hot and cold-rolled steel (internal environments up to C3), stainless steel and non-architectural aluminium extrusions.
- Location: 3 storey buildings maximum. Internal and external (> 100 m from shoreline).

Interpon 200 Metaplex (BCA Class 1 to 10):

- Substrates: Hot dip galvanized steel, mild steel, hot and cold-rolled steel (internal environments up to C3), stainless steel and non-architectural aluminium extrusions. This system is suitable for application on perforated panels up to a limit of

3000 m². Contact Interpon for exemptions. Warranty is not available for application of this system on perforated mild steel substrates.

- Location: All building heights. Internal and external.
- Graffiti resistant.

Interpon D2525 Metaplex (BCA Class 1 to 10):

- Substrates: Hot dip galvanized steel, mild steel, hot and cold-rolled steel (internal environments up to C3), stainless steel and non-architectural aluminium extrusions.
- Location: All building heights. Internal and external.

Warranty period (years): Warranty conditions apply and can only be issued to a Metaplex Approved Applicator.

Interpon Steelplex systems

System name	Primer	Barrier coat	Topcoat	Atmospheric corrosivity category to AS 4312 (2019)	Warranty period (years)
Interpon 200 Steelplex commercial and residential (C1 to C3, 2-coat system)	Interpon Redox PZ 560	Nil	Interpon 200	C1 to C3	Film integrity: 10 Colour: 10 Corrosion: 5
Interpon D2525 Steelplex commercial and residential (C1 to C3, 2-coat system)	Interpon Redox PZ 560	Nil	Interpon D2525	C1 to C3	Film integrity: 15 Colour: 15 Corrosion: 5
Interpon D3020 Steelplex commercial and residential (C1 to C3, 2-coat system)	Interpon Redox PZ 560	Nil	Interpon D3020 Fluoromax Gen II	C1 to C3	Film integrity: 20 Colour: 20 Corrosion: 5
Interpon 200 Steelplex commercial and residential (C1 to C3, 3-coat system)	Interpon Redox PZ 560 or PZ 790	Interpon Redox APA MetaPrep Primer	Interpon 200	C1 to C3	Film integrity: 10 Colour: 10 Corrosion: 10
Interpon D2525 Steelplex commercial and residential (C1 to C3, 3-coat system)	Interpon Redox PZ 560 or PZ 790	Interpon Redox APA MetaPrep Primer	Interpon D2525	C1 to C3	Film integrity: 15 Colour: 15 Corrosion: 10
Interpon D3020 Steelplex commercial and residential (C1 to C3, 3-coat system)	Interpon Redox PZ 560 or PZ 790	Interpon Redox APA MetaPrep Primer	Interpon D3020 Fluoromax Gen II	C1 to C3	Film integrity: 20 Colour: 20 Corrosion: 10
Interpon 200 Steelplex commercial and residential (C4, 3-coat system)	Interpon Redox PZ 790	Interpon Redox APA MetaPrep Primer	Interpon 200	C4	Film integrity: 10 Colour: 10 Corrosion: 5
Interpon D2525 Steelplex commercial and residential (C4, 3-coat system)	Interpon Redox PZ 790	Interpon Redox APA MetaPrep Primer	Interpon D2525	C4	Film integrity: 15 Colour: 15 Corrosion: 5
Interpon D3020 Steelplex commercial and residential (C4, 3-coat system)	Interpon Redox PZ 790	Interpon Redox APA MetaPrep Primer	Interpon D3020 Fluoromax Gen II	C4	Film integrity: 20 Colour: 20 Corrosion: 5
Interpon 200 Steelplex commercial and residential (C5, 3-coat system)	Interpon Redox PZ 790	Interpon Redox APA MetaPrep Primer	Interpon 200	C5	Film integrity: 10 Colour: 10 Corrosion: 3
Interpon D2525	Interpon	Interpon	Interpon	C5	Film integrity: 15

System name	Primer	Barrier coat	Topcoat	Atmospheric corrosivity category to AS 4312 (2019)	Warranty period (years)
Steelplex commercial and residential (C5, 3-coat system)	Redox PZ 790	Redox APA MetaPrep Primer	D2525		Colour: 15 Corrosion: 3
Interpon D3020 Steelplex commercial and residential (C5, 3-coat system)	Interpon Redox PZ 790	Interpon Redox APA MetaPrep Primer	Interpon D3020 Fluoromax Gen II	C5	Film integrity: 20 Colour: 20 Corrosion: 3

Interpon 200 Steelplex commercial and residential: Graffiti resistant. Suitable for hot and cold-rolled steel, and mild steel substrates. For internal and external use.

Interpon D2525 Steelplex commercial and residential: Suitable for hot and cold-rolled steel, and mild steel substrates. For internal and external use.

Interpon D3020 Steelplex commercial and residential: Suitable for hot and cold-rolled steel, and mild steel substrates. For internal and external use.

Example environments for different atmospheric corrosivity categories:

- C1 to C3: Light industrial, geothermal hot spot (> 500 m from source) and inland coastal (mild sea spray zone). More than 500 m from coastal or aggressive atmosphere.
- C4: Sea shore (medium sea spray zone), offshore islands and geothermal (< 500 m from source). More than 20 m from coastal or aggressive atmosphere.
- C5: Sea shore (high sea spray zone e.g. Surf), offshore islands and heavy industrial. More than 20 m from coastal or aggressive atmosphere.

See *Interpon specification guide (2022)* for more information.

4.2 PROJECT SELECTIONS

Interpon powder coating systems schedule

	A	B	C
System name			
Application			
Substrate			
Colour			
Gloss level			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

System name: Select the appropriate system from **INTERPON POWDER COATING SYSTEMS**.

Application: Nominate the particular project item. e.g. Frame extrusions, louvres, balustrades, cladding.

Substrate: Nominate the substrate. e.g. Mild steel, stainless steel, aluminium.

Colour: Contact Interpon for available colours.

Gloss level: Contact Interpon for available gloss levels. e.g. Texture, matt, satin, or gloss. Not all gloss levels are available across the colour ranges.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 3715	2025	Metal finishing - Thermoset powder coatings for architectural applications of aluminium and aluminium alloys
AS 4312	2019	Atmospheric corrosivity zones in Australia
AS 4506	2024	Metal finishing - Thermoset powder coatings
AAMA 2603	2022	Voluntary specification, performance requirements and test procedures for pigmented organic coatings on aluminum extrusions and panels (with coil coating appendix)
AAMA 2604	2022	Voluntary specification, performance requirements and test procedures for high performance organic coatings on aluminum extrusions and panels (with coil coating appendix)

AAMA 2605	2022	Voluntary specification, performance requirements and test procedures for superior performing organic coatings on aluminum extrusions and panels (with coil coating appendix)
EN 15804	2012	Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
ISO 14025	2006	Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 21930	2017	Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services
The following documents are mentioned only in the <i>Guidance</i> text:		
Interpon GN10	2024	Guidance note 10 - Application of metallic and effect powder coatings
Interpon Spec Guide	2022	Interpon specifications guide - Color and performance
NATSPEC DES 010		Atmospheric corrosivity categories for ferrous products
NATSPEC GEN 006		Product specifying and substitution
NATSPEC GEN 024		Using NATSPEC selections schedules
NATSPEC TR 01		Specifying ESD