

Overview:

Metwood can be applied to mild steel, coated steel & aluminium panels & extrusions.

It is:

- Lightweight
- Non-warping
- Impact & scratch resistant
- Virtually Maintenance free
- Stain & Fade resistant

Manufacturing Process:

- a photographic image is printed onto a film
- the film is wrapped around powder coated item
- a vacuum is applied to create pressure
- in a high temperature oven the pressure and heat lift the image from the film, and transfers it INTO the powder coating layer (a process called sublimation).

MetWood Pre-Treatments:



The MetWood pre-treatment process is an 8 stage process:

Initial Clean - using a degreaser to clean all grease deposits from the surface. Cleaner Rinse - using de-ionised water <1000μs/cm. Etch - to remove oxidation and etch the surface for coating. Rinse - using de-ionised water <1000μs/cm. Rinse - using de-ionised water <500μs/cm. Corrosion Protection - using chromate for corrosion protection of aluminium. Corrosion Protection Rinse - using <500μs/cm. Final Rinse - using <80μs/cm.

MetWood Sublimation Transfer Films (STF):

MetWood STF Films offer durability with long-lasting results and full respect for the environment

MetWood STF Films are made of polyethylene terephthalate (PET) which has one of the best ratios of performance/ price/recyclability performance.

While the sublimation inks used are not engineered to be biodegradable, they are made of organic components, free of heavy and dangerous metals and any other dangerous / hazardous / toxic substances.

The properties of Aluminium:

While (consruction & demolition) waste is actually created by contractors on site, the decisions made by designers have a major influence on the type and amount of waste. (www.branz.co.nz)

Aluminium is abundant and infinately recyclable.

With rainforest being destroyed at an unprecedented rate, and sustainably sourced timbers becoming increasingly scarce and costly, choosing a material with sustainability as well as price in mind, is ever more critical.

"Aluminium is a light, strong, flexible, non-corrosive and infinitely recyclable metal. Metals are some of the most recycled and recyclable materials in common use today, with aluminium having one of the highest recycling rates of any metal, and being 100% recyclable it has a minimal environmental footprint." (nzas.co.nz)

"Aluminium is the most abundant element in the earth's crust. Approximately 75% of aluminium ever produced is still in use today as it can be recycled endlessly without compromising any of its unique properties or quality. Aluminium's lifecycle provides significant benefits through recycling, saving 95% of the energy it would take to make new aluminium metal." (aluminium.org.au)

Aluminium is light.

With a density around 1/3 that of steel, and a weight around 50% less than wood, aluminium is light. This means low transport costs and easy installation and handling, with no compromise to structural integrity in all environmental conditions.

Aluminium is Insect Resistant.

Aluminium is impervious to insects. It therefore eliminates any need for chemical insect repellants/killers.

MetWood Powder Coating:

MetWood powder coating is backed by a 25year performance guarantee

Performance.

MetWood's Sublimation Transfer Film Powder Coatings exceeds globally recognised AAMA 2604 standards which set out the performance requirements with regards to gloss retention, colour uniformity, weathering durability, humidity resistance, impact resistance and chemical resistance and are suited perfectly for all residential and commercial applications.

25 Year Interpon D Warranty.

We can provide a 25 year warranty on the powder coating, backed by Interpon, the world leader in powder coatings.





TECHNICAL INFORMATION

Interpon.

AkzoNobel Powder Coatings



Product Data Sheet

AkzoNobel Powder Coatings Interpon D2525 STF

Product Description	Interpon D2525 STF Matt and Texture is a range of powder coatings expressly formulated as a base for successive heat-transfer decoration. Smooth and fine structures are available. Interpon D2525 STF Matt and Texture is a series of ultra-durable powder coatings specifically formulated without TGIC, intended for use on architectural aluminium and galvanized steel. Providing new levels of weathering resistance Interpon D2525 STF Matt and Texture surpasses the performance of leading architectural powders. It offers significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection. These powder coatings are classified in Family I – class 6c under standard NFT 36-005.					
	Interpon D2525 STF Matt and Texture meets the requirements of Qualicoat Class 2, EN 12206 (formerly BS6496), EN13438 (formerly BS6497:1984) and AAMA 2604-13. Some colours may not be available in Interpon D2525 STF Matt and Texture. Following RAL shades are excluded from the RAL families for Qualicoat class 2: Ral 1003, 1012, 1018, 1028, 1033, 2004, 2011, 3015, 3017, 3018, 3020, 4001.					
	The exterior durability of the dependent on the exterior coating base. To make sur recommended to put the d	e decorated coating film (powder co durability of the decorating papers/fil e that the decorated coating film has ecorated coating film through homol	ating base + paper/film) is highly ms inks; and not only on the powder s a good exterior durability it is ogation tests.			
	Qualicoat Licence numb Turkey P1260 (Interpon D: Qualideco Licence Numb Miroglio/Decotrans Alu; De	er (Italy): P-1190 (Interpon D2525 Te 2525 Matt) per (Italy): PS-002 Decorative films: I ecoral System/Heat Transfer film Dec	exture); P-1189 (Interpon D2525 Matt) Menphis/Colormenphis Film; coral System.			
Powder Properties	Chemical type	Polvester				
	Gloss	20-30 gloss units				
	(EN ISO 2813 (60°))	-				
	Particle Size	Suitable for electrostatic spray				
	Specific gravity	1.2-1.9g/cm ³ depending on colou	Ir			
	Storage	Dry, cool conditions (open boxes	must be resealed)			
	Storage Shelf life	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem	must be resealed) perature perature			
	Storage Shelf life Stoving schedule	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C	must be resealed) perature perature			
	Storage Shelf life Stoving schedule (object temperature)	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C	must be resealed) perature perature			
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Test Conditions	Storage Shelf life Stoving schedule (object temperature) The results shown below indicated) have been car product performance will Substrate	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C are based on mechanical and chem ried out under laboratory conditions depend upon the circumstances und Aluminum (0.5-0.8 mm Al Ma1)	must be resealed) perature perature ical tests which (unless otherwise and are given for guidance only. Actual ler which the product is used.			
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Test Conditions	Storage Shelf life Stoving schedule (object temperature) The results shown below indicated) have been car product performance will Substrate Pretreatment Dry Film Thickness	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C are based on mechanical and chem ried out under laboratory conditions a depend upon the circumstances und Aluminum (0.5-0.8 mm Al Mg1) Chromate (DIN 50539) 60-80 microns (ISO 2360)	must be resealed) perature perature ical tests which (unless otherwise and are given for guidance only. Actual ler which the product is used.			
Test Conditions	Storage Shelf life Stoving schedule (object temperature) The results shown below indicated) have been car product performance will Substrate Pretreatment Dry Film Thickness Stoving	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C are based on mechanical and chem ried out under laboratory conditions a depend upon the circumstances und Aluminum (0.5-0.8 mm Al Mg1) Chromate (DIN 50539) 60-80 microns (ISO 2360) 10 minutes at 200° C (object tem	must be resealed) perature perature ical tests which (unless otherwise and are given for guidance only. Actual ler which the product is used. perature)			
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Test Conditions	Storage Shelf life Stoving schedule (object temperature) The results shown below indicated) have been car product performance will Substrate Pretreatment Dry Film Thickness Stoving Flexibility Adhesion	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C are based on mechanical and chem ried out under laboratory conditions a depend upon the circumstances und Aluminum (0.5-0.8 mm Al Mg1) Chromate (DIN 50539) 60-80 microns (ISO 2360) 10 minutes at 200° C (object tem ISO 1519 (cylindrical Mandrel) ISO 2409 (2mm Crosshatch)	must be resealed) perature perature ical tests which (unless otherwise and are given for guidance only. Actual ler which the product is used. perature) Pass Qualicoat class 2 requirements Pass Gt0			
Test Conditions	Storage Shelf life Stoving schedule (object temperature) The results shown below indicated) have been car product performance will Substrate Pretreatment Dry Film Thickness Stoving Flexibility Adhesion Erichsen Cupping	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C are based on mechanical and chem ried out under laboratory conditions a depend upon the circumstances und Aluminum (0.5-0.8 mm Al Mg1) Chromate (DIN 50539) 60-80 microns (ISO 2360) 10 minutes at 200° C (object tem ISO 1519 (cylindrical Mandrel) ISO 2409 (2mm Crosshatch) ISO1520	must be resealed) perature perature ical tests which (unless otherwise and are given for guidance only. Actual ler which the product is used. perature) Pass Qualicoat class 2 requirements Pass Gt0 Pass Qualicoat class 2 requirements			
Test Conditions	Storage Shelf life Stoving schedule (object temperature) The results shown below indicated) have been car product performance will Substrate Pretreatment Dry Film Thickness Stoving Flexibility Adhesion Erichsen Cupping Impact resistance	Dry, cool conditions (open boxes 24 months below 30°C peak tem 12 months below 35°C peak tem 15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C are based on mechanical and chem ried out under laboratory conditions a depend upon the circumstances und Aluminum (0.5-0.8 mm Al Mg1) Chromate (DIN 50539) 60-80 microns (ISO 2360) 10 minutes at 200° C (object tem ISO 1519 (cylindrical Mandrel) ISO 2409 (2mm Crosshatch) ISO 1520 ISSO 6272	must be resealed) perature perature ical tests which (unless otherwise and are given for guidance only. Actual ler which the product is used. perature) Pass Qualicoat class 2 requirements			



Chemical and	Acetic Acid Salt Spray	ISO 9227	<16 mm ² corrosion/10cm (1000 hrs)
Durability Tests	Constant Humidity	ISO 6270	No blistering, creep <1mm (1000 hrs
	Sulphur Dioxide	ISO 3231	Pass 30 cycles- no blistering, loss of aloss or discoloration
	Permeability	Pressure Cooker EN12206-2004	Pass 1 hour, no blistering
	Chemical Resistance		Generally good resistance to acid, alkalis and oils at normal temperatures.
	Mortar Resistance	EN12206-2004	No effect after 24 hours
	Exterior Durability	ISO 2810 (1 year)	Meets qualicoat class 2 requirements after 3 years Florida
			Meets AAMA 2604-13 requirements after 5 years Florida
	Accelerated Weathering	ISO11341 (1000 hrs) ISO11507:1997 QUV B 313 (600 hrs)	>90% Gloss retention >50% Gloss retention
're-treatment	For maximum protection it is D2525 STF Matt and Texture	essential to pretreat compone e.	ents prior to the application of Interpon
	Aluminium components shoul chrome-free pre-treatment or	Id receive a full multi-stage ch suitable pre-anodising to clea	aromate conversion coating or suitable an and condition the substrate. Detailed
	advice should be cought from		
	advice should be sought from	i the pre-treatment supplier.	
	Interpon D2525 STF Matt ar use Interpon PZ anti-corrosive	nd Texture products may also e primer over a correctly prep	b be used on cast or mild steel. For outdoor ared substrate is recommended.
Application	Interpon D2525 STF Matt ar use Interpon PZ anti-corrosive Interpon D2525 STF Matt ar spray equipment. Unused pov and recycled through the syst ratio for virgin/reclaim powder	In the pre-treatment supplier. Ind Texture products may also e primer over a correctly prep Ind Texture powders can be a wder can be reclaimed up to a tem. Please consult AkzoNob r.	b be used on cast or mild steel. For outdoor ared substrate is recommended. pplied by manual or automatic electrostation a maximum of 30% using suitable equipment el for further details as to the correct mixing
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Application Post Application Maintenance Safety Precautions Disclaimer	Interpon D2525 STF Matt ar use Interpon PZ anti-corrosive Interpon D2525 STF Matt ar spray equipment. Unused por and recycled through the syst ratio for virgin/reclaim powder All powders can show small of While AkzoNobel take every p Applicators and fabricators ar Differences are more likely with Bonded products have better should still be paid to line sett recycling. For more information Products with different codes For specific advice on the suit adhesives, thermal break, cle For specific advice on Cleanin Maintenance Guidelines avail Please consult the relevant M FOR PROFESSIONAL USE ON	and Texture products may also e primer over a correctly prep and Texture powders can be a wder can be reclaimed up to a tem. Please consult AkzoNob c. colour differences from batch is precaution to minimize visible e advised to use a single batch its special effect powders. application properties than blittings in order to avoid "marble on, it is suggested to read the should not be mixed even if s tability of post coating proces aning etc. Please consult Akz ng and Maintenance, please of lable from AkzoNobel.	b be used on cast or mild steel. For outdoor ared substrate is recommended. pplied by manual or automatic electrostatic a maximum of 30% using suitable equipme el for further details as to the correct mixing to batch, this is normal and unavoidable. differences, this cannot be guaranteed. ch for parts that will be assembled together ended products (more stable) but attention e effect" and changes in aspect after <i>Metallic Applications Guidelines</i> . same colour and gloss. sess such as bending or the use of sealants zoNobel. consult the <i>Interpon D series Cleaning and</i> SDS) available from AkzoNobel.



legis advi corr or th Thei perf sup requ subj devi	slation. Always read the ce we give or any state ect to the best of our kn refore, unless we specif ormance of the product olied and technical advi lest a copy of this docu ect to modification fror slopment. It is the user	e Material Data Sheet and the Technical Data ment made about the product by us (whether nowledge but we have no control over the qu og the use and application of the product. fically agree in writing otherwise, we do not a t or for any loss or damage arising out of the ices given are subject to our standard terms ment and review it carefully. The information n time to time in the light of experience and o s responsibility to verify that this data sheet	Sheet for this product if available. Al r in this data sheet or otherwise) is ality or the condition of the substrate uccept any liability whatsoever for the use of the product. All products and conditions of sale. You should o contained in this data sheet is our policy of continuous is current prior to using the product.
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Akzo Nobel Powder Coatings Ltd. Worldwide Powder Group Stoneygate Lane, Felling Tyne & Wear NE10 0JY	T +44 (0) 191 469 6111 F +44 (0) 191 438 5431	For more information, contact your local AkzoNobel representative www.interpon.com/contact-us	
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		Page 3 of 3	Interpon



Australian West Testing Anthonly Ltd - tracing as AWTA Product Testing A.B.N 43 006 014 106 1st Floor, 191 Resoccessor Read, Floorington, Victoria 3631 P.D Ress 240, North Minibourne, Victoria 3651 Floore (12) 9371 2400							
Client : Powder Coa Group NZ Li	ing miled	PORT Test Number : Issue Date : Print Date :	20-00628 18/12/202 18/01/202	0 10 21			
Sample Description	Clients Ref : Metarood® Rigid Panel Colour : Various prints End Use : Architectural Aluminium Co Nominal Gemposition : Polyester res Nominal Mass per Unit Area/Censity : Nominal Thickness : 80-100um	aling in powder on aluminium Approx: 1.2-1.7g/m2					
A\$1125 1530.3-1999	Methods for Fire Tests on Building Male Part 3: Simultaneous Determination of I Flame Propagation, Heat Release and S Face tested: Date tested:	rials, Components and Structures gnitability, Smote Release www. manue Standard Error	Ne	21			
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	Spread of Flame Index		a	Range D-10			
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