

Polyurethane

INTENDED USES

Suitable for use in both new construction and as an industrial maintenance finish which can be used in a wide variety of environments including offshore structures, petrochemical facilities, bridges, pulp and paper mills, and in the power industry.

Particularly designed for use in areas where a high gloss is either not desired or where a semigloss is the preferred option.

Provides a versatile option where overcoating of intermediates in one coat is not possible using conventional high gloss polyurethane finishes.

PRACTICAL INFORMATION FOR INTERTHANE 870

Colour	Wide range via the Chromascan system
Gloss Level	Semi Gloss
Volume Solids	56% \pm 3% (depends on colour)
Typical Thickness	75-125 microns (3-5 mils) dry equivalent to 134-223 microns (5.4-8.9 mils) wet
Theoretical Coverage	4.48 m ² /litre at 125 microns d.f.t and stated volume solids 180 sq.ft/US gallon at 5 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush, Rollei
Drying Time	

			Overcoating Interval with recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
5°C (41°F)	90 minutes	30 hours	30 hours	Extended ¹	
15°C (59°F)	75 minutes	16 hours	16 hours	Extended ¹	
25°C (77°F)	60 minutes	5 hours	5 hours	Extended ¹	
40°C (104°F)	45 minutes	2.5 hours	2.5 hours	Extended ¹	

¹ See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA Flash Point (Typical) Part A 35°C (95°F); Part B 50°C (122°F); Mixed 35°C (95°F)

Product Weight VOC 1.38 kg/l (11.5 lb/gal) 3.14 lb/gal (377 g/lt) 280 g/kg 362 g/lt

EPA Method 24 EU Solvent Emissions Directive (Council Directive 2010/75/EU) Chinese National Standard GB23985

See Product Characteristics section for further details

Protective Coatings

Worldwide Product





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SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Primed Surfaces

Interthane 870 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interthane 870 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Interthane 870.

APPLICATION	Mixing	 Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified. (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. 						
	Mix Ratio	7 part(s) : 1 part(s) by volume						
	Working Pot Life		15°C (59 3.5 hours		25°C (77°F) 2 hours	40°C (104°F) 45 minutes		
	Airless Spray	Recommended		Tip Range 0.43-0.58 mm (17-23 thou) Total output fluid pressure at spray tip not less than 155 kg/cm² (2204 p.s.i.)				
	Air Spray (Pressure Pot)	Recommended		Gun Air C Fluic	Сар	DeVilbiss MBC or JGA 704 or 765 E		
	Air Spray (Conventional)	Suitable		Use suitable proprietary equipment				
	Brush	Suitable		Typically 50-75 microns (2.0-3.0 mils) can be achieved				
	Roller	Suitable		Typically 50-75 microns (2.0-3.0 mils) can be achieved				
	Thinner	International GTA713 or International GTA733 (or International GTA056)		Do not thin more than allowed by local environmental legislation				
	Cleaner	International GTA713, International GTA733 or International GTA056		Choice of cleaner maybe subject to local legislation. Please consult your local representative for specific advice.				
	Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA713. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.						
	Clean Up	good working practice to course of the working da sprayed, temperature and			mediately after use with International GTA713. It is o periodically flush out spray equipment during the ay. Frequency of cleaning will depend upon amount nd elapsed time, including any delays. d empty containers should be disposed of in			
						ations/legislation.		



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PRODUCT CHARACTERISTICS

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods whenever possible.

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Application by air spray may require a multiple cross spray pattern to attain maximum film build. Low or high temperatures may require specific application techniques to achieve maximum film build.

If application in one coat using brush and roller is desired then the undercoat shade should be chosen to match the final coat shade. Dark coloured and MIO undercoats will typically require 2 coats of Interthane 870.

When applying Interthane 870 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

Applicators should be aware that the ability to apply Interthane 870 in one coat will be affected by the temperature of the substrate. At higher steel temperatures, lower film builds and thinner coats are likely to be achieved.

This product must only be thinned using the recommended International thinners. The use of alternative thinners, particularly those containing alcohols, can severely inhibit the curing mechanism of the coating.

Do not apply at steel temperatures below 5°C (41°F).

When applying Interthane 870 in confined spaces ensure adequate ventilation.

When overcoating after weathering or ageing, ensure the coating is fully cleaned to remove all surface contamination such as oil, grease, salt crystals and traffic fumes, before application of a further coat of Interthane 870.

Condensation occurring during or immediately after application may result in a matt finish and an inferior film.

Premature exposure to ponding water will cause colour change, especially in dark colours and at low temperatures.

Absolute measured adhesion of topcoats to aged Interthane 870 is less than that to fresh material, however, it is adequate for the specified end use.

This product is not recommended for use in immersion conditions. When severe chemical or solvent splashing is likely to occur contact International Protective Coatings for information regarding suitability.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

The following primers/intermediates are recommended for Interthane 870:

Intercure 200 Intercure 200HS Intercure 420 Intercure 420HS Intergard 251 Intergard 475HS Interplus 256 Interplus 356 Interseal 670HS Interzinc 52 Interzinc 52HS Interzinc 315 Interzone 505 Interzone 954

Interthane 870 is designed only to be topcoated with itself.

For other suitable primers/intermediates, consult International Protective Coatings.



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ADDITIONAL Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- · Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult AkzoNobel for further advice.

Warning: Contains isocyanate. Wear air-fed hood for spray application.

PACK SIZE	Unit Size	Part A Vol	Pack	Part B Vol	Pack		
	20 litre	17.5 litre	20 litre	2.5 litre	3.7 litre		
	5 US gal	4.38 US gal	5 US gal	0.63 US gal	1 US gal		
For availability of other pack sizes, contact AkzoNobel.							
SHIPPING WEIGHT (TYPICAL)	Unit Size	Pa	rt A	Part B			
	20 litre	27	27 kg				
	5 US gal	55	.1 lb	6.4 lb			
STORAGE	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.					

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to use Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

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