

Acrylic Polyurethane

PRODUCT DESCRIPTION

A high performance, two-component chemically-cured aliphatic polyurethane gloss finish for use in areas where maximum gloss and colour retention are required.

INTENDED USES

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

Also suitable for use as a gloss finish for motors, machinery and transportation vehicles.

PRACTICAL INFORMATION FOR INTERTHANE 4379

Colour	Wide range via the Chromascan system																												
Gloss Level	High Gloss																												
Volume Solids	60% ± 2%																												
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 83-125 microns (3.3-5 mils) wet																												
Theoretical Coverage	8 m ² /litre at 75 microns d.f.t and stated volume solids 321 sq.ft/US gallon at 3 mils d.f.t and stated volume solids																												
Practical Coverage	Allow appropriate loss factors																												
Method of Application	Airless Spray, Air Spray, Brush, Conventional Spray, Roller																												
Drying Time	<div>Overcoating Interval with recommended topcoats</div> <table> <tr> <th>Temperature</th><th>Touch Dry</th><th>Hard Dry</th><th>Minimum</th><th>Maximum</th></tr> <tr> <td>5°C (41°F)</td><td>10 hours</td><td>20 hours</td><td>12 hours</td><td>2 weeks</td></tr> <tr> <td>15°C (59°F)</td><td>6 hours</td><td>12 hours</td><td>8 hours</td><td>2 weeks</td></tr> <tr> <td>25°C (77°F)</td><td>3 hours</td><td>6 hours</td><td>4 hours</td><td>2 weeks</td></tr> <tr> <td>40°C (104°F)</td><td>60 minutes</td><td>3 hours</td><td>2 hours</td><td>7 days</td></tr> </table>				Temperature	Touch Dry	Hard Dry	Minimum	Maximum	5°C (41°F)	10 hours	20 hours	12 hours	2 weeks	15°C (59°F)	6 hours	12 hours	8 hours	2 weeks	25°C (77°F)	3 hours	6 hours	4 hours	2 weeks	40°C (104°F)	60 minutes	3 hours	2 hours	7 days
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Minimum and maximum overcoating values relate to constant substrate temperatures.

REGULATORY DATA

Flash Point (Typical)	Part A 27°C (81°F); Part B 25°C (77°F); Mixed 24°C (75°F)		
Product Weight	1.38 kg/l (11.5 lb/gal)		
VOC	3.27 lb/gal (392 g/l)	EPA Method 24	
	384 g/l	Calculated	

See Product Characteristics section for further details

Protective Coatings

Acrylic Polyurethane

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.

Interthane 4379 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interthane 4379 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-SP10, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Interthane 4379.

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	4 part(s):1 part(s) by volume			
Working Pot Life	5°C (41°F) 12 hours	15°C (59°F) 6 hours	25°C (77°F) 3 hours	40°C (104°F) 90 minutes
Airless Spray	Recommended	Tip Range 0.27-0.43 mm (11-17 thou) Total output fluid pressure at spray tip not less than 207 kg/cm² (2944 p.s.i.)		
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
Air Spray (Conventional)	Recommended	Use suitable proprietary equipment		
Brush	Suitable	Typically 40-50 microns (1.6-2.0 mils) can be achieved		
Roller	Suitable	Typically 40-50 microns (1.6-2.0 mils) can be achieved		
Thinner	International GTA713			
Cleaner	International GTA713			
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	Clean all equipment immediately after use with International GTA713. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.			

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PRODUCT CHARACTERISTICS

Apply in good climatic conditions. The temperature of the surface to be coated must be at least 3°C (5°F) above the dew point. Ensure adequate ventilation is provided throughout application and curing.

Level of gloss and surface finish are dependent on application method. Avoid using a mixture of application methods. Best results in terms of gloss and appearance will always be obtained with conventional air spray application. For brush and roller application, and in some colours, two coats of Interthane 4379 may be required to give uniform coverage, especially when applying Interthane 4379 over dark undercoats, and when using certain lead free bright colours such as yellows and oranges. Best practice is to use a colour compatible intermediate or anticorrosive coating under the Interthane 4379.

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

Condensation occurring during or immediately after application may result in a matt finish and an inferior film. Premature exposure to ponding water will cause a colour change, especially in dark colours.

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 4379. Absolute measured adhesion of topcoats to aged Interthane 4379 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. Where prolonged 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

Suitable primers/intermediates are;

Intergard 251
Interplus 1180
Interplus 356

Interthane 4379 can be overcoated with itself.

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ADDITIONAL INFORMATION

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 Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

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 International Protective Coatings for further advice.

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

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	5 litre	4 litre	5 litre	1 litre	1 litre
	20 litre	16 litre	20 litre	4 litre	4 litre
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	5 litre	6.25 kg		1.22 kg	
	20 litre	25.2 kg		4.8 kg	
STORAGE	Shelf Life	24 months (Part A) & 12 months (Part B) 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 our 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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