

Polyurethane

PRODUCT DESCRIPTION

A two component acrylic polyurethane finish giving excellent durability and long term recoatability.

INTENDED USES

High performance finish providing excellent protection on exterior exposure. Interthane 582 has good abrasion resistance as well as good resistance to solvents and chemicals in acidic environments.

Interthane 582 shows good gloss and colour retention.

PRACTICAL INFORMATION FOR INTERTHANE 582

Colour	Wide range via the Chromascan system			
Gloss Level	High Gloss			
Volume Solids	63%			
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 79-119 microns (3.2-4.8 mils) wet			
Theoretical Coverage	10.50 m ² /litre at 60 microns d.f.t and stated volume solids 421 sq.ft/US gallon at 2.4 mils d.f.t and stated volume solids			
Practical Coverage	Allow appropriate loss factors			
Method of Application	Airless Spray, Air Spray, Brush, Roller			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	Minimum	Maximum
10°C (50°F)	6 hours	30 hours	30 hours	60 hours
15°C (59°F)	5 hours	24 hours	24 hours	52 hours
25°C (77°F)	4 hours	8 hours	8 hours	48 hours
40°C (104°F)	3 hours	7 hours	7 hours	44 hours

REGULATORY DATA

Flash Point (Typical)	Part A 23°C (73°F); Part B 23°C (73°F); Mixed 23°C (73°F)		
Product Weight	1.20 kg/l (10.0 lb/gal)		
VOC	360 g/l	Calculated	
See Product Characteristics section for further details			

Protective Coatings

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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 Petrobras Standard N-5.

Interthane 582 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interthane 582 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

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. Manual agitation may be used for up to 18 litres of material.			
Mix Ratio	4 part(s) : 1 part(s) by volume			
Working Pot Life	5°C (41°F) 6 hours	15°C (59°F) 5 hours	25°C (77°F) 4 hours	40°C (104°F) 3 hours
Airless Spray	Recommended	Tip Range 0.33-0.45 mm (13-18 thou) Total output fluid pressure at spray tip not less than 155 kg/cm ² (2204 p.s.i.)		
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 777 E	
Brush	Recommended - Small areas only			
Roller	Recommended - Small areas only			
Thinner	Not recommended	Use International GTA713 only in exceptional circumstances (maximum 15% by volume). Do not thin more than allowed by local environmental legislation		
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

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

Do not apply if relative humidity exceeds 85%.

Pot life times must not be exceeded even though the material may be still liquid and appear useable. It is good working practice that application should commence with full unopened units of material. Due to the moisture sensitivity with partially filled units of the curing agent component, there is a danger of reaction with atmospheric moisture which could adversely affect the performance of the final coating film.

Interthane 582 should be applied within the specified overcoating intervals (consult the relevant product datasheet), otherwise coating adhesion may be affected.

For brush and roller application, and in some colours, two coats of Interthane 582 may be required to give uniform coverage, especially when applying Interthane 582 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 582.

Drying times are dependent upon ambient conditions and film thicknesses applied.

Dry film thicknesses greater than specified should be avoided to prevent solvent retention.

The temperature of the surface to be coated must be at least 3°C (5°F) above the dew point. For optimum application properties bring the material to 21-27°C (70-80°F), unless specifically instructed otherwise, prior to mixing and application.

This product has the following specification approvals:

- Petrobras Standard N-2677

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 582:

Intergard 235
Intergard 413
Interplate 341
Interplus 56
Interzinc 52

For other suitable primers/intermediates consult International Protective Coatings.

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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
	20 litre	16 litre	20 litre	4 litre	5 litre
	3.6 litre	2.88 litre	3.6 litre	0.72 litre	0.9 litre
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size		Part A		Part B
	3.6 litre		3.81 kg		0.9 kg
	20 litre		20.63 kg		4.78 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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