

KInternational

Aliphatic Polyurethane

PRODUCT DESCRIPTION

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

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.

PRACTICAL INFORMATION FOR INTERTHANE 990 Colour Wide range via the Chromascan system

Gloss Level High Gloss

Volume Solids 57% ± 3% (depends on colour)

Typical Thickness 50-75 microns (2-3 mils) dry equivalent to

88-132 microns (3.5-5.3 mils) wet

Theoretical Coverage 11.40 m²/litre at 50 microns d.f.t and stated volume solids

457 sq.ft/US gallon at 2 mils d.f.t and stated volume solids

Practical Coverage Allow appropriate loss factors

Method of Application Airless Spray, Air Spray, Brush, Rolle

Drying Time

Overcoating Interval with recommended topcoats

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
-5°C (23°F)	8 hours	60 hours	60 hours	Extended ¹
5°C (41°F)	5 hours	24 hours	24 hours	Extended ¹
15°C (59°F)	150 minutes	10 hours	10 hours	Extended ¹
25°C (77°F)	90 minutes	6 hours	6 hours	Extended ¹
40°C (104°F)	60 minutes	3 hours	3 hours	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical) Part A 34°C (93°F); Part B 49°C (120°F); Mixed 35°C (95°F)

Product Weight 1.21 kg/l (10.1 lb/gal)

VOC 3.50 lb/gal (420 g/lt) EPA Method 24

341 g/kg EU Solvent Emissions Directive (Council Directive 2010/75/EU)

379 g/lt 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 990 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interthane 990 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 990.

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	6 part(s): 1part(s) by volume					
	Working Pot Life	-5°C (23°F) 26 hours	5°C (41°I 12 hours	,	15°C (59°F) 4 hours	25°C (77°F) 2 hours	40°C (104°F) 45 minutes
	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/cm² (2204 p.s.i.)			
	Air Spray (Pressure Pot)	Recommended		Gun DeVilbiss MBC or JGA Air Cap 704 or 765 Fluid Tip E		or JGA	
	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 Do not thin more than allowed by local (or International GTA733 environmental legislation or GTA056)				local	
	Cleaner	International GTA713 (or Choice of cleaner maybe subject to local International GTA733 or legislation. Please consult your local GTA056) representative for specific advice.			cal		
	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.				Once units of advised that	
	Clean Up	Clean all equipment immediately after use with International GTA713. It is good working practice to periodically flush out spray equipment during the					ent during the

accordance with appropriate regional regulations/legislation.

sprayed, temperature and elapsed time, including any delays.

All surplus materials and empty containers should be disposed of in

course of the working day. Frequency of cleaning will depend upon amount

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PRODUCT CHARACTERISTICS Interthane 990 is available in a range of metallic finishes - please consult the separate Interthane 990 Metallic Working Procedures document for further information.

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

Best results in terms of gloss and appearance will always be obtained by conventional air spray application.

For brush and roller application, and in some colours, two coats of Interthane 990 may be required to give uniform coverage, especially when applying Interthane 990 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 990.

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 990.

Absolute measured adhesion of topcoats to aged Interthane 990 is less than that to fresh material, however, it is adequate for the specified end use.

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.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

When applying Interthane 990 in confined spaces ensure adequate ventilation.

Interthane 990 is capable of curing at temperatures below 0°C (32°F). However, this product should not be applied at temperatures below 0°C (32°F) where there is a possibility of ice formation on the substrate. 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.

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.

A modified version of Interthane 990 is available for use within the Korean marketplace in order to provide improved workability.

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 990:

Intercure 200	Interseal 670HS
Intercure 200HS	Interzinc 315
Intercure 420	Interzinc 52
Intergard 251	Interzinc 52HS
Intergard 269	Interzone 505
Intergard 345	Interzone 954
Intergard 475HS	Interzone 1000

Interthane 990 is designed only to be topcoated with itself.

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
- · Interthane 990 Metallic Finish Working Procedures

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		Part B		
		Vol	Pack	Vol	Pack	
	20 litre	17.14 litre	20 litre	2.86 litre	3.7 litre	
	5 US gal	4.29 US gal	5 US gal	0.71 US gal	1 US gal	
	For availability of other	r pack sizes, co	ntact AkzoNc	bel.		

SHIPPING WEIGHT	Unit Size	Part A	Part B	
(TYPICAL)	20 litre	23.1 kg	3.5 kg	
	5 US gal	47.6 lb	7.1 lb	

STORAGE	Shelf Life	24 months (Part A) and 18 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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