

Aliphatic Polyurethane

PRODUCT 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	$57\% \pm 3\%$ (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 m ² /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, Rollei

Drying Time

				g Interval with ded 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

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

Product Weight VOC 1.21 kg/l (10.1 lb/gal) 3.50 lb/gal (420 g/lt) 341 g/kg

EPA Method 24 EU Solvent Emissions Directive (Council Directive 2010/75/EU)

See Product Characteristics section for further details

Protective Coatings

Page 1 of 4 Issue Date:27/02/2019 Ref:2484 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	in the proporti within the wor (1) Agita (2) Com	ons suppli king pot lif ite Base (F bine entire	ed. Once the e specified. Part A) with a contents of	e unit ha a power Curing	as been mixed	a complete unit it must be used with Base
	Mix Ratio	6 part(s): 1pa	rt(s) by vo	lume			
	Working Pot Life	-5°C (23°F) 26 hours	5°C (41° 12 hours	,	(59°F) rs	25°C (77°F) 2 hours	40°C (104°F) 45 minutes
	Airless Spray	Recommende	d		it fluid p	45 mm (13-18 t pressure at spra 2204 p.s.i.)	
	Air Spray (Pressure Pot)	Recommende	d	Gun Air Cap Fluid Tip		DeVilbiss MBC 704 or 765 E	or JGA
	Air Spray (Conventional)	Recommende	d	Use suitabl	e propr	ietary equipme	nt
	Brush	Suitable		Typically 40 achieved	0-50 mi	crons (1.6-2.0 ı	mils) can be
	Roller	Suitable		Typically 40 achieved	0-50 mi	crons (1.6-2.0 r	mils) can be
	Thinner	International G (or Internation or GTA056)				han allowed by slation	local
	Cleaner	International G	GTA713 (o	r Internationa	al GTA	733 or GTA056)
	Work Stoppages	Thoroughly flu paint have bee	sh all equi en mixed tl	pment with I ney should n	nternat ot be re	n or spray equi ional GTA713. esealed and it is es with freshly	Once units of advised that
	Clean Up	good working course of the v	practice to working da	periodically y. Frequenc	flush o y of cle	ut spray equipn	al GTA713. It is nent during the nd upon amount ys.
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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 Intercure 200HS Intercure 420 Intergard 251 Intergard 269 Intergard 345 Intergard 475HS Interseal 670HS Interzinc 315 Interzinc 52 Interzinc 52HS Interzone 505 Interzone 954 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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	in the following documents Definitions & J 		v.internationa			
	 Surface Prepa 	aration				
	 Paint Applicat 	ion				
	Theoretical &	Practical Covera	ge			
	Interthane 990	0 Metallic Finish	Working Proc	edures		
	Individual copies of these i	nformation section	ons are availa	ble upon reques	t.	
SAFETY PRECAUTIONS	This product is intended for advice given on this sheet reference to the Safety Da	, the Safety Data				
	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.					
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