

Polyurethane

PRODUCT DESCRIPTION A low VOC, two component acrylic polyurethane high performance finish coat with excellent gloss and color retention on exterior exposure, for use over correctly prepared primed surfaces.

INTENDED USES As a durable high gloss finish coat for exposed steelwork in a wide range of aggressive environments, including chemical and petrochemical plants, offshore structures, bridges, pulp and paper mills, power plants and refineries.

For use over correctly prepared primed steel and masonry surfaces in both new construction and maintenance situations.

Exhibits superior application properties, environmental durability and chemical resistance. Gives excellent gloss and color retention on exterior exposure.

PRACTICAL	Color	Wide range v	Wide range via the Chromascan® system					
INFORMATION FOR INTERTHANE 990HS	Gloss Level	High Gloss	High Gloss $68\% \pm 3\%$ (depends on color)					
	Volume Solids	68% ± 3% (d						
	Typical Thickness	2-3 mils (50- wet	s (74-110 microns)					
	Theoretical Coverage	545 sq.ft/US gallon at 2 mils d.f.t and stated volume solids 13.60 m²/liter at 50 microns d.f.t and stated volume solids						
	Practical Coverage	Allow approp	oriate loss factors					
	Method of Application	n Airless Spray, Air Spray, Brush, Roller						
	Drying Time							
				Overcoating in	Overcoating interval with self			
	Temperature	Touch Dry	Hard Dry	Minimum	Maximum			
	50°F (10°C)	3.5 hours	30 hours	30 hours	30 days			
	59°F (15°C)	3 hours	22 hours	22 hours	30 days			
	77°F (25°C)	2 hours	12 hours	12 hours	30 days			
	104°F (40°C)	1 hour	4 hours	4 hours	30 days			
REGULATORY DATA	Flash Point	Part A 100°F (38°C); Part B 135°F (57°C); Mixed 102°F (39°C)						
	Product Weight	12.5 lb/gal (1.50 kg/	5 lb/gal (1.50 kg/l)					
	VOC	2.72 lb/gal (327 g/lt)	EPA Metho	od 24				

See Product Characteristics section.

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 ISO 8504:2000.

Primed Surfaces

Interthane 990HS should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Interthane 990HS 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. SSPC-SP6 or Sa2¹/₂ (ISO 8501-1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Interthane 990HS.

APPLICATION	Mixing	the proportions suppl the working pot life sp (1) Agitate Base (2) Combine en	 Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. 				
	Mix Ratio	9 part(s) : 1 part(s) by volume					
	Working Pot Life	50°F (10°C) 59°F (7 hours 6 hour		c) 104°F (40°C) 1 hour			
	Airless Spray	Total out		ige 15-19 thou (0.38-0.48 mm) itput fluid pressure at spray tip not less than si (141 kg/cm²)			
	Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E			
	Brush	Suitable	Typically 1.6-2. achieved	Typically 1.6-2.0 mils (40-50 microns) can be achieved			
	Roller	Suitable	Typically 1.6-2. achieved	Typically 1.6-2.0 mils (40-50 microns) can be achieved			
	Thinner	International GTA056 International GTA713		e than allowed by local environmental			
	Cleaner	International GTA056 (or International GTA713)					
	Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA056. 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	working practice to pe	eriodically flush out a quency of cleaning v	e with International GTA056. It is good spray equipment during the course of <i>v</i> ill depend upon amount sprayed, any delays.			
		All surplus materials a accordance with appr		rs should be disposed of in ulations/legislation			



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PRODUCT CHARACTERISTICS Level of sheen and surface finish is 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 air spray application.

For brush and roller application, and in some colors, two coats of Interthane 990HS may be required to give uniform coverage, especially when applying Interthane 990HS over dark undercoats, and when using certain lead free bright colors such as yellows and oranges. Best practice is to use a color compatible intermediate or anti-corrosive coating under the Interthane 990HS.

Application at high film thickness, i.e. greater than 4 mils (100 microns) is likely to detract from appearance due to surface defects. At low film build (1.6 mils / 40 microns) dry film thickness opacity will be insufficient to give good coverage, with a number of colors resulting in an uneven finish appearance.

Over-application of Interthane 990HS will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

When surface temperatures are greater than 104°F (40°C) for periods of greater than 72 hours, pretreatment may be required before application of a further coat of Interthane 990HS. When recoating beyond 30 days at any surface temperature, additional surface preparation may be required. Contact International Protective Coatings for recommendations.

Application at excessively high relative humidity, or under conditions where condensation is likely to occur, may result in immediate or premature loss of gloss. Best results will always be obtained by applying with relative humidity less than 85% and with surface temperatures at least 5°F (3°C) above dew point.

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

Premature exposure to ponding water will cause a color change, especially in dark colors.

This product has the following specification approvals:

• USDA approval for incidental food contact surface in federally inspected meat and poultry plants. Subject to Inspector-In-Charge approval.

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 color 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 990HS:

Intercure 200 Intercure 420 Intergard 251 Intergard 269 Intergard 475HS InterH2O 401 Interplus 256 Interplus 356 Interplus 770

Interplus 880 Interseal 670HS Interzinc 42 Interzinc 52 Interzinc 315 Interzone 505 Interzone 954 Interzone 1000

Interthane 990HS is designed to be topcoated with itself.

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



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Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the ADDITIONAL following documents available at www.international-pc.com: INFORMATION · Definitions & Abbreviations · Surface Preparation · Paint Application · Theoretical & Practical Coverage Individual copies of these information sections are available upon request. SAFETY 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 PRECAUTIONS 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 Vol Pack		Part B				
	5 US gal	4.5 US gal	5 US gal	Vol 0.5 US gal	Pack 1 US gal			
	Ŭ	0	Ŭ	0	0			
	20 liter	18 liter	20 liter	2 liter	2.5 liter			
For availability of other pack sizes contact International Protective Coatings								
SHIPPING WEIGHT	Unit Size	Pa	art A	Part B				
	5 US gal	61.1 lb		4.4 lb				
	20 liter	29).7 kg	2.5 kg				
		40 11				<i>(</i>) <i>(</i>) <i>(</i>) <i>(</i>)		
STORAGE	Shelf Life	12 months minimum at 77°F (25°C). 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 al for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. 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 iable 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 International Paint representative that this data sheet is current prior to using the product.

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