

Interthane® 990M

Polyurethane



PRODUCT DESCRIPTION

A two component, mildew resistant acrylic polyurethane finish providing excellent durability and colour stability along with long term recoatability.

INTENDED USES

Specifically developed for both new construction and maintenance projects in areas where the proliferation of mildew and subsequent dirt pick-up may harm the cosmetic appearance of finish coats.

Typically used on structural steel equipment such as pipe and tank externals in the sugar and alcohol production industries.

PRACTICAL INFORMATION FOR INTERTHANE 990M

Colour	White
Gloss Level	High Gloss
Volume Solids	57% ± 3%
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, Roller

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
5°C (41°F)	5 hours	24 hours	24 hours	Extended ¹
15°C (59°F)	2.5 hours	10 hours	10 hours	Extended ¹
25°C (77°F)	1.5 hours	6 hours	6 hours	Extended ¹
40°C (104°F)	1 hour	3 hours	3 hours	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point	Part A 34°C (93°F)	Part B 49°C (120°F)	Mixed 35°C (95°F)
Product Weight	1.20 kg/l (10.0 lb/gal)		
VOC	3.50 lb/gal (420 g/l)	USA - EPA Method 24	
	387 g/kg	EU Solvent Emissions Directive (Council Directive 1999/13/EC)	

See Product Characteristics section for further details

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

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) : 1 part(s) by volume		
Working Pot Life	5°C (41°F) 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/cm ² (2204 p.s.i.)	
Air Spray (Conventional)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
Brush	Suitable - Touch up and small areas only	Typically 40-50 microns (1.6-2.0 mils) can be achieved	
Roller	Suitable - Touch up and small areas only	Typically 40-50 microns (1.6-2.0 mils) can be achieved	
Thinner	Not recommended	Use International GTA713 only in exceptional circumstances (maximum 5% 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 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 conventional air spray application.

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.

When applying Interthane 990M in confined spaces ensure adequate ventilation.

Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the Storage section of this datasheet.

It is recommended that relative humidity should not exceed 85% during application and cure.

Interthane 990M should be applied within the specified overcoating intervals (consult the relevant product datasheet), otherwise coating adhesion may be affected.

Drying times will depend on temperature, relative humidity, film thickness and other factors.

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

Interthane 990M may be suitable for use in other industries. Consult International Protective Coatings for further details.

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 990M:

Intercure 200	Interplus 56
Intergard 235	Interseal 670HS
Intergard 251	Interzinc 52
Intergard 269	Interzone 954
Intergard 475HS	

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

Interthane 990M is designed to be topcoated 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	20 Litre unit	Interthane 990M Part A	17.14 litres in a 20 litre container
		Interthane 990M Part B	2.86 litres in a 3.7 litre container
	5 Gallon unit	Interthane 990M Part A	4.29 gallons in a 5 gallon container
		Interthane 990M Part B	0.71 gallons in a 1 gallon container

For availability of other pack sizes, contact International Protective Coatings.

SHIPPING WEIGHT	U.N. Shipping No. 1263	
	20 Litre unit	23.1 kg (50.9 lb) Part A 3.5 kg (7.7 lb) Part B
	5 Gallon unit	21.6 kg (47.6 lb) Part A 3.2 kg (7.1 lb) Part B


STORAGE	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.
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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 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 International Paint representative that this data sheet is current prior to using the product.

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