

## Aliphatic Polyurethane

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

**INTENDED USES** Suitable for use in both new construction and as an industrial maintenance finish which can be used in a wide variety of environments including offshore structures, petrochemical facilities, bridges, pulp and paper mills, and in the power industry.

Particularly designed for use in areas where a high gloss is either not desired or where a semi-gloss is the preferred option.

### PRACTICAL INFORMATION FOR INTERTHANE 990SG

**Colour** Wide range via the Chromascan system

**Gloss Level** Semi-gloss (see page 3 for more details)

**Volume Solids** 72% ± 3% (depends on colour)

**Typical Thickness** 50-75 microns (2-3 mils) dry equivalent to 69-104 microns (2.8-4.2 mils) wet

**Theoretical Coverage** 14.40 m<sup>2</sup>/litre at 50 microns d.f.t and stated volume solids  
577 sq.ft/US gallon at 2 mils d.f.t and stated volume solids

**Practical Coverage** Allow appropriate loss factors

**Method of Application** Air Spray, Airless Spray, Brush, Roller

#### Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating interval with self	
			Minimum	Maximum
5°C (41°F)	5 hours	24 hours	24 hours	Extended <sup>1</sup>
15°C (59°F)	2.5 hours	10 hours	10 hours	Extended <sup>1</sup>
25°C (77°F)	1.5 hours	6 hours	6 hours	Extended <sup>1</sup>
40°C (104°F)	1 hour	3 hours	3 hours	Extended <sup>1</sup>

<sup>1</sup> 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** 1.47 kg/l (12.3 lb/gal)

**VOC** 236 g/kg EU Solvent Emissions Directive (Council Directive 2010/75/EU)

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.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

### Primed Surfaces

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

### APPLICATION

<b>Mixing</b>	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.		
<b>Mix Ratio</b>	6 part(s) : 1 part(s) by volume		
<b>Working Pot Life</b>	5°C (41°F) 7 hours	15°C (59°F) 3.5 hours	25°C (77°F) 40°C (104°F) 2 hours 45 minutes
<b>Airless Spray</b>	Recommended	Tip Range 0.33-0.45 mm (13-18 thou) Total output fluid pressure at spray tip not less than 155 kg/cm <sup>2</sup> (2204 p.s.i.)	
<b>Air Spray (Pressure Pot)</b>	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
<b>Air Spray (Conventional)</b>	Suitable	Use suitable proprietary equipment	
<b>Brush</b>	Suitable	Typically 50-75 microns (2.0-3.0 mils) can be achieved	
<b>Roller</b>	Suitable	Typically 50-75 microns (2.0-3.0 mils) can be achieved	
<b>Thinner</b>	International GTA713 (or International GTA733 or International GTA056)	Do not thin more than allowed by local environmental legislation	
<b>Cleaner</b>	International GTA713 or (International GTA733 or International GTA056)		
<b>Work Stoppages</b>	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.		
<b>Clean Up</b>	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.

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

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 990SG.

Absolute measured adhesion of topcoats to aged Interthane 990SG 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.

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

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

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.

Gloss Level - Interthane 990SG is available in a gloss version in the Middle East region. Please contact International Protective Coatings in the Middle East for more information.

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.

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### SYSTEMS COMPATIBILITY

The following primers/intermediates are recommended for Interthane 990SG:

Intercure 200	Intergard 475HS
Intercure 200HS	Interseal 1052
Intercure 420	Interseal 670HS
Intergard 251	Interzinc 315
Intergard 2511	Interzinc 52
Intergard 251HS	Interzinc 52HS
Intergard 269	Interzone 954

Interthane 990SG should only be overcoated with itself.

For other suitable primers/intermediates/topcoats, 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](http://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 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 litre	4.29 litre	5 litre	0.71 litre	1 litre

For availability of other pack sizes, contact AkzoNobel.

SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B
	20 litre	26.9 kg	3.5 kg
	5 litre	7 kg	0.9 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](http://www.international-marine.com) or [www.international-pc.com](http://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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