

**PRODUCT DESCRIPTION** A two pack, low VOC polyurethane finish. Outstanding resistance to severe weathering. High gloss. Good abrasion, chemical and solvent resistance.

**INTENDED USES** A cosmetic finish for above water areas.  
For use at Newbuilding, Maintenance & Repair or On Board Maintenance.

<b>PRODUCT INFORMATION</b>	<b>Colour</b>	99002-Black, 99010-White . Range of colours.
	<b>Finish/Sheen</b>	High Gloss (ASTM D-523)
	<b>Converter/Curing Agent</b>	990B
	<b>Volume Solids</b>	62% ±2% (ASTM D2697-86)
	<b>Mix Ratio</b>	9.00 volumes Part A to 1 volume Part B
	<b>Typical Film Thickness</b>	2.0 mils dry (3.2 mils wet) 2.0-3.0 mils (51-76 microns) dry practical range equivalent to 3.2-4.8 mils (81-122 microns) wet
	<b>Theoretical Coverage</b>	495 (ft <sup>2</sup> /US Gal) at 2.0 mils (51 microns) dft, allow appropriate loss factors.
	<b>Method of Application</b>	Airless Spray, Brush, Conventional Spray, Roller
	<b>Flash Point</b>	Part A 100°F ; Part B 135°F ; Mixed 103°F (Setaflash) (ASTM D-3278)
	<b>Induction Period</b>	None required
	<b>Dry Temperature Resistance</b>	199°F

### Drying Information

	41°F	50°F	77°F	86°F
Touch Dry [ASTM D1640 7.5.1]	3.5hrs	3hrs	2hrs	75mins
Hard Dry [ASTM D1640 7.7]	24hrs	17hrs	6hrs	3hrs
<b>Pot Life</b>	7hrs	5.5hrs	3hrs	2hrs

### Overcoating Data - see limitations

Overcoated By	Substrate Temperature							
	41°F		50°F		77°F		86°F	
	Min	Max	Min	Max	Min	Max	Min	Max
Interthane 990 HS	24hrs	30days	17hrs	30days	6hrs	30days	3hrs	30days

**Note:** Recoat limits are defined as 990HS, at specified temperatures within a relative humidity range of 40-60%. For surface temperatures in excess of 90°F (32°C), see "Limitations" section.

<b>REGULATORY DATA</b>	<b>VOC</b>	327 g/lit (2.73 lb/US Gal) as supplied (EPA Method 24)
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# Interthane 990 HS

## Low VOC Polyurethane Finish

### SYSTEMS AND COMPATIBILITY

Consult your International Representative for the system best suited for the surfaces to be protected.

### SURFACE PREPARATIONS

Paint only clean, dry surfaces. Remove all grease, oil, soluble contaminants and other foreign matter by "solvent cleaning" (SSPC-SP1).

#### **Unpainted surfaces:**

Prepare surface and apply recommended primer. Apply one or more coats of Interthane 990 HS as specified. (Consult the relevant primer data sheet for surface preparation and overcoating information.)

#### **Previously Painted Surfaces**

Remove all mill scale, loose rust, loose paint and other foreign matter by "Hand or Power Tool Cleaning" (SSPC-SP2 or SP3, respectively).

Sand or "Brush Blast" (SSPC-SP7) any hard glossy areas until dull. Spot prime bare areas as recommended and apply one or more coats of Interthane 990 HS as specified. Consult the relevant primer data sheet for specific surface preparation and overcoating information. Check integrity of existing coating system and apply a representative test patch to confirm compatibility. Consult your International Representative for procedures.

# Interthane 990 HS

## Low VOC Polyurethane Finish

<b>APPLICATION</b>	Apply by brush, roller or spray. Apply at 3.2 mils wet (81 microns) which will give 2.0 mils (51 microns) dry film thickness, as specified. Consult the following equipment recommendations or utilize suitable equal.
<b>Tinting</b>	Range of colours available from Chromascan. Most colours require that containers be slightly short filled to accommodate the addition of colourant. Actual coverage will depend upon amount of colourant added and should be taken into consideration when ordering. A limited number of Interthane 990 HS tinted colours may require more than one coat for complete hiding.
<b>Mixing</b>	Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Part A and Part B and mix thoroughly with a power agitator.
<b>Thinner</b>	DO NOT THIN BEYOND YOUR STATE'S COMPLIANCY. Maximum thinning for VOC compliance is color specific. Contact your International Representative for thinning and VOC information.
<b>Airless Spray</b>	Minimum 30:1 ratio pump; 0.013" - 0.019" (331-483 microns) orifice tip; 3/8" (9.5mm) ID high pressure material hose; 60 mesh tip filter.
<b>Conventional Spray</b>	DeVilbiss MBC-510 gun E tip and 704 air cap; 3/8" (9.5mm) ID material hose; double regulated pressure tank with oil and moisture separator.
<b>Brush</b>	Use appropriate size China bristle brush.
<b>Roller</b>	Use All Purpose Roller cover with 3/8" (9.5mm) pile smooth to medium nap. Prewash roller cover to remove loose fibers prior to use.
<b>Work Stoppages and Cleanup</b>	Clean all equipment immediately after use with International GTA056 Thinner. Spray equipment requires flushing with this solvent. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency will depend upon factors such as amount sprayed, temperature and elapsed time including work stoppages. Monitor material condition. Do not exceed pot life limitations. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.
<b>Welding</b>	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. In North America do so in accordance with instruction in ANSI/ASC Z49.1 "Safety in Welding and Cutting."

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<b>SAFETY</b>	<p><b>All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety &amp; Environmental standards and regulations.</b></p> <p><b>Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information. Read and follow all precautionary notices on the Material Safety Data Sheet and container labels. If you do not fully understand these warnings and instructions or if you can not strictly comply with them, do not use this product. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapour concentrations within safe limits and to protect against toxic or oxygen deficient hazards. Take precautions to avoid skin and eye contact (ie. gloves, goggles, face masks, barrier creams etc.) Actual safety measures are dependant on application methods and work environment.</b></p> <p><b>EMERGENCY CONTACT NUMBERS:</b> USA/Canada - Medical Advisory Number 1-800-854-6813 Europe - Contact (44) 191 4696111. For advice to Doctors &amp; Hospitals only contact (44) 207 6359191 R.O.W. - Contact Regional Office (see page 4 of Data Sheet)</p>
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### LIMITATIONS

Apply in good weather when air and surface temperatures are above 35°F (2°C). Surface temperature must be at least 5°F (3°C) above dew point. For optimum application properties, bring material to 70-80°F (21-27°C) prior to mixing and application. Unmixed material (in closed containers) should be maintained in protected storage between 40 and 100°F (4-38°C).

Film thickness above 4.0 mils (102 microns) and below 1.5 mils (38 microns) DFT may adversely effect appearance and performance. If surface temperatures exceed 90°F (32°C), then after 72 hours clean with GMA571 biodegradable cleaner prior to overcoating. For recoat beyond 30 days at any surface temperature additional surface preparation may be required.

Overcoating information is given for guidance only and is subject to regional variation depending upon local climate and environmental conditions. Consult your local International Representative for specific recommendations.

Technical and application data herein is for the purpose of establishing a general guideline of the coating and proper coating application procedures. Test performance results were obtained in a controlled laboratory environment and International makes no claim that the exhibited published test results, or any other tests, accurately represent results actually found in all field environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection, verification of performance and use of the coating.

**TINT BASE AVAILABILITY** 99011A - Light, 99044A - Ultra Deep, 99066A - Red, 99033A - Deep and 99055A - Yellow.

### UNIT SIZE

1 US gallon unit (3.79 lt) : Interthane 990 HS, Part A, 1 US gallon (short filled) and Part B, 1 US pint (short filled)  
5 US gallon unit (18.93 lt) : Interthane 990 HS, Part A, 5 US gallon (short filled), Part B, ½ US gallon

*This product can be made available in other pack sizes. Consult International for details.*

### UNIT SHIPPING WEIGHT

1 US gallon unit (3.79 lt) - 12.25 lb (5.5 kg)  
5 US gallon unit (18.93 lt) - 60.7 lb (27.5 kg)

### UN SHIPPING NO.

1263

### STORAGE

Shelf Life

18 months minimum from date of manufacture when maintained in protected storage at 40-100°F (4-38°C). Subject to reinspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

### WORLDWIDE AVAILABILITY

Consult International.

### DISCLAIMER

*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 his own risk. All advice we give 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. All products supplied and technical advice given are subject to our standard terms and 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 that this data sheet is current prior to using the product. It is the user's responsibility to check with his local International representative that this data sheet is current prior to using the product.*

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