

## High Solids Abrasion Resistant Aluminium Pure Epoxy

**PRODUCT DESCRIPTION** A high solids, light coloured, abrasion resistant, aluminium pure epoxy coating giving excellent long term anticorrosive protection and low temperature capability.

**INTENDED USES** A universal primer which can be applied directly to mechanically prepared shop primer or suitably prepared bare steel. Suitable for use with controlled cathodic protection. For use at Newbuilding or Maintenance & Repair.



Certified to ANSI/NSF Standard 61. NSF Certification is for tanks greater than 1,000 gallons

PRODUCT INFORMATION	Colour	ENA380-Bronze, ENA381-Aluminium
	Finish/Sheen	Matt
	Part B (Curing Agent)	ENA383
	Volume Solids	78% ±2% (ISO 3233:1998)
	Mix Ratio	2.50 volume(s) Part A to 1.00 volume(s) Part B
	Typical Film Thickness	160 microns dry (205 microns wet)
	Theoretical Coverage	4.88 m <sup>2</sup> /litre at 160 microns dft, allow appropriate loss factors
	Method of Application	Airless Spray, Brush, Roller
	Flash Point (Typical)	Part A 42°C; Part B 40°C; Mixed 41°C

Drying Information	-5°C	5°C	25°C	35°C
Touch Dry [ISO 9117/3:2010]	10 hrs	8 hrs	3 hrs	2 hrs
Hard Dry [ISO 9117-1:2009]	28 hrs	14 hrs	6 hrs	3 hrs
Pot Life	120 mins	100 mins	60 mins	50 mins

Overcoating Data - see limitations	Substrate Temperature							
	-5°C		5°C		25°C		35°C	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max
Interfine 979	28 hrs	7 days	14 hrs	7 days	7 hrs	7 days	3 hrs	7 days
Intergard 263	28 hrs	14 days	14 hrs	14 days	7 hrs	14 days	3 hrs	14 days
Intergard 267	28 hrs	14 days	14 hrs	14 days	7 hrs	14 days	3 hrs	14 days
Intergard 5377	28 hrs	10 days	14 hrs	10 days	7 hrs	10 days	3 hrs	10 days
Intergard 740	28 hrs	21 days	14 hrs	21 days	7 hrs	21 days	3 hrs	14 days
Intershield 300HS Immersed Areas	28 hrs	21 days	14 hrs	21 days	7 hrs	14 days	3 hrs	14 days
Intershield 300HS Non Immersed Areas	28 hrs	3 mths	14 hrs	3 mths	7 hrs	3 mths	3 hrs	3 mths
Intershield 5150LWT	-	-	-	-	18 hrs	10 days	12 hrs	7 days
Intersleek 717	-	-	14 hrs	14 days	7 hrs	14 days	3 hrs	14 days
Intersleek 731	-	-	-	-	3 hrs	2 days	3 hrs	2 days
Interthane 990	28 hrs	5 days	14 hrs	5 days	7 hrs	5 days	3 hrs	3 days

**Note** Consideration should be given when overcoating at low temperatures as the remainder of the system may require higher temperatures to achieve full cure. Minimum temperature for overcoating Intershield 5150LWT is 10°C. Minimum recoat at 10°C is 24 hrs, maximum recoat time is 10 days. Intershield 300HS overcoated with Intersleek 731 can be specified at 10°C. At 10°C, the minimum interval being 3 hours and the maximum being 2 days.

REGULATORY DATA	VOC	206 g/lt as supplied (EPA Method 24) 152 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)
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**Note:** VOC values are typical and are provided for guidance purposes only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

## Marine Coatings

## High Solids Abrasion Resistant Aluminium Pure Epoxy

### CERTIFICATION

When used as part of an approved scheme, this product has the following certification:

- Food Contact - FDA Compliant: Dry Foodstuffs
- Food Contact - Carriage of Grain (NOHA)
- Fire Resistance - Surface Spread of Flame (Exova Warringtonfire)
- Fire Resistance - Smoke & Toxicity (Exova Warringtonfire)
- Fire Resistance - Marine Equipment Directive compliant
- Potable Water - Certification for tanks greater than 1,000 gallons (ANSI Standard 61)

Potable Water Certification issued by external bodies is dependent upon formulation and/or manufacturing site. Based on this, products supplied in different territories may not be approved to all of the standards listed above. Consult your International Paint representative for details.

### SYSTEMS AND COMPATIBILITY

Consult your International Paint representative for the system best suited for the surfaces to be protected. When using in cargo holds, consult the Intershield 300HS Cargo Hold Application Guidelines.

### SURFACE PREPARATIONS

Use in accordance with the standard Worldwide Marine Specifications.

All surfaces to be coated should be clean, dry and free from contamination.

High pressure fresh water wash or fresh water wash, as appropriate, and remove all oil or grease, soluble contaminants and other foreign matter in accordance with SSPC-SP1 solvent cleaning.

#### NEWBUILDING

Where necessary, remove weld spatter and smooth weld seams and sharp edges.

Weld seams and areas of shop primer damage or breakdown should be blast cleaned to Sa2½ (ISO 8501-1:2007) or power tooled to Pt3 (JSRA SPSS:1984).

Intact, approved, shop primers must be clean, dry and free from soluble salts and any other surface contaminants.

#### MAJOR REFURBISHMENT

Abrasive blast clean to minimum Sa2 (ISO 8501-1:2007) or International Paint Hydroblasting Standard HB2M. If oxidation has occurred between blasting and application of Intershield 300HS, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner.

#### REPAIR

Consult International Paint.

#### OTHER

For tank coating projects, consult International Paint for the detailed tank coating procedures that should be followed.

Consult your International Paint representative for specific recommendations.

#### NOTE

**For use in Marine situations in North America, the following surface preparation standards can be used:**

**SSPC-SP10 in place of Sa2½ (ISO 8501-1:2007)**

**SSPC-SP11 in place of Pt3 (JSRA SPSS:1984)**

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### 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 power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.
<b>Thinner</b>	International GTA220. DO NOT thin more than allowed by local environmental legislation. Use of thinner for potable water application is not allowed.
<b>Airless Spray</b>	Recommended Tip Range 0.53-0.78 mm (21-31 thou) Total output fluid pressure at spray tip not less than 211 kg/cm <sup>2</sup> (3000 p.s.i.)
<b>Brush</b>	Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
<b>Roller</b>	Application by roller is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
<b>Cleaner</b>	International GTA822/GTA220
<b>Work Stoppages and Cleanup</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822/GTA220. 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 all equipment immediately after use with International GTA822/GTA220. 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. 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."

### SAFETY

**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.**

**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.**

#### **EMERGENCY CONTACT NUMBERS:**

**USA/Canada - Medical Advisory Number 1-800-854-6813**

**Europe - Contact (44) 191 4696111. For advice to Doctors & Hospitals only contact (44) 207 6359191**

**China – Contact (86) 532 83889090**

**R.O.W. - Contact Regional Office**

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### LIMITATIONS

Intershield 300HS should be high pressure fresh water washed and/or solvent washed prior to overcoating, where necessary, to ensure removal of any surface contamination that has accumulated.  
 Suitable for use on tanker decks subject to Classification Society Regulations.  
 Intershield 300HS may be applied at substrate temperatures down to -5°C, however consideration should be given when overcoating at low temperatures as the remainder of the system may require higher temperatures to achieve full cure.  
 When used as a potable water tank lining a two coat system (10 mil DFT) must be applied and a nominal cure of 30 days minimum at 25°C and 50% relative humidity is required (no thinning is allowed in the potable water system).  
 As part of a two coat potable water scheme, the recommended and allowed recoat interval is 24 hours minimum at 23°C.

Overcoating information is given for guidance only and is subject to regional variation depending upon local climate and environmental conditions. Consult your local International Paint representative for specific recommendations. Apply in good weather. Temperature of the surface to be coated must be at least 3°C above the dew point. For optimum application properties bring the material to 21-27°C, unless specifically instructed otherwise, prior to mixing and application. Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE Section of this data sheet. Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures. Test performance results were obtained in a controlled laboratory environment and International Paint makes no claim that the exhibited published test results, or any other tests, accurately represent results 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.

UNIT SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	17.5 lt	12.5 lt	20 lt	5 lt	5 lt
	3.5 US gal	2.5 US gal	5 US gal	1 US gal	1 US gal

For availability of other unit sizes consult International Paint

UNIT SHIPPING WEIGHT (TYPICAL)	Unit Size	Unit Weight
	17.5 lt	22.5 Kg
	3.5 US gal	43.18 lb

STORAGE	Shelf Life	12 months at 25°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. <b>Proceed with caution if storage temperature has exceeded 35°C as gassing and pressure build up of ENA383 may occur.</b>
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**WORLDWIDE AVAILABILITY** Consult International Paint.

### 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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