

## Abrasion Resistant Aluminium Pure Epoxy

**PRODUCT DESCRIPTION** A two pack, abrasion resistant aluminium pure epoxy with good anticorrosive performance.

**INTENDED USES** As an abrasion resistant pure epoxy to limit mechanical damage and subsequent corrosion in cargo holds. For use at Newbuilding and Maintenance & Repair.

<b>PRODUCT INFORMATION</b>	<b>Color</b>	EHA702-Aluminium Red, EHA703-Aluminium Grey
	<b>Finish/Sheen</b>	Semi-gloss
	<b>Part B (Curing Agent)</b>	EHA704
	<b>Volume Solids</b>	74% ±2% (ISO 3233:1998)
	<b>Mix Ratio</b>	3 volume(s) Part A to 1 volume(s) Part B
	<b>Typical Film Thickness</b>	5 mils dry (6.8 mils wet)
	<b>Theoretical Coverage</b>	237 ft <sup>2</sup> /US gal at 5 mils dft, allow appropriate loss factors
	<b>Method of Application</b>	Airless Spray, Brush, Roller
	<b>Flash Point</b>	Part A 97°F; Part B 90°F; Mixed 93°F
	<b>Induction Period</b>	Not required

<b>Drying Information</b>	41°F		59°F		77°F		95°F		
Touch Dry [ISO 9117/3:2010]	8 hrs		6 hrs		4 hrs		2 hrs		
Hard Dry [ISO 9117-1:2009]	20 hrs		16 hrs		12 hrs		6 hrs		
Pot Life	3 hrs		2.5 hrs		1.5 hrs		45 mins		
<b>Overcoating Data - see limitations</b>		<b>Substrate Temperature</b>							
		41°F		59°F		77°F		95°F	
<b>Overcoated By</b>	Min	Max	Min	Max	Min	Max	Min	Max	
Intergard 7020	20 hrs	3 mths	16 hrs	3 mths	12 hrs	3 mths	6 hrs	3 mths	

<b>REGULATORY DATA</b>	<b>VOC</b>	239 g/lit (1.99 lb/US gal) as supplied (EPA Method 24) 177 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC) 224 g/lit Chinese National Standard GB23985
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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 color and normal manufacturing tolerances.

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### CERTIFICATION

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

- Food Contact - Carriage of Grain (NOHA)
- Food Contact - FDA Compliant: Dry Foodstuffs

Consult your International Paint representative for details.

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### SYSTEMS AND COMPATIBILITY

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

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### 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.

Unapproved shop primers will require complete removal by blast cleaning to Sa2½ (ISO 8501-1:2007). In some cases sweep blasting to a defined International Paint standard (eg AS2 or AS3) may be acceptable. Consult your

International Paint representative for specific recommendations.

#### MAJOR REFURBISHMENT

Abrasive blast clean to Sa2 (ISO 8501-1:2007). A blast profile of 75µ - 100µ is required. If oxidation has occurred between blasting and application of Intergard 7020, 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.

For application to ballast holds, abrasive blast cleaning to Sa2½ (ISO 8501-1:2007) is required.

#### REPAIR/OBM - Exposed steel and corrosion:

Abrasive blast clean to Sa2 (ISO 8501-1:2007). If oxidation has occurred between blasting and application of Intergard 7020, 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.

Intergard 7020 is suitable for overlap onto most aged coating systems. Loose or flaking coatings should be removed back to a firm edge and Intergard 7020 should be applied to overlap the existing coating by 2-3 centimetres (one inch). Existing coatings may require abrasion.

#### Intact Coatings:

This product may be applied as a full coat over most generic types of paint that have been aged for at least 3 months, abrasion may be required. It is advisable that a small trial be carried out before applying a full coat over certain generic types. Consult International Paint for acceptable generic types and extent of surface preparation required.

Accurate film thickness control is essential, particularly when overcoating existing systems.

#### Wet Holds

Abrasive blast clean to Sa2½ (ISO 8501-1:2007). 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).

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 2 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>Thinner</b>	International GTA220. Thinning is not normally required. Consult the local representative for advice during application in extreme conditions. Do not thin more than allowed by local environmental legislation.
<b>Airless Spray</b>	Recommended Tip Range 21-25 thou (0.53-0.63 mm) Total output fluid pressure at spray tip not less than 4000 psi (281 kg/cm <sup>2</sup> )
<b>Conventional Spray</b>	Application by conventional spray is not recommended.
<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 GTA220/GTA822
<b>Work Stoppages and Cleanup</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA220/GTA822. 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 GTA220/GTA822. 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 vapor 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

When spraying large areas, application of a brush coat is recommended over pitted or rough surfaces to ensure full penetration. Stripe coating of complex structures is recommended. Optimum performance is achieved when Intergard 7020 is applied over blasted steel. Intergard 7020 will cure down to 23°F but will require a period of cure above 41°F to achieve full mechanical properties. Consult International Paint.

The coating will exhibit surface discoloration if immersed in seawater after application and curing at temperatures <50°F. This does not effect the performance characteristics of the product.

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 5°F above the dew point. For optimum application properties bring the material to 70°F-81°F, 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.

In the overcoating data section 'ext' = extended overcoating period. Please refer to our Marine Painting Guide - Definitions and Abbreviations available on our website.

UNIT SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	20 lt	15 lt	20 lt	5 lt	5 lt
For availability of other unit sizes consult International Paint					
UNIT SHIPPING WEIGHT	Unit Size	Unit Weight			
	20 lt	29.72 Kg			
STORAGE	Shelf Life	9 months at 77°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

**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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