

Abrasion Resistant Epoxy

PRODUCT DESCRIPTION A two pack, abrasion resistant pure epoxy coating with excellent mechanical properties.

INTENDED USES As a high performance two pack abrasion resistant pure epoxy coating to limit mechanical damage and subsequent corrosion. Suitable for cargo holds and also exterior hulls of ice-going vessels. Suitable for use with controlled cathodic protection.
For use at Maintenance & Repair.

PRODUCT INFORMATION	Colour	EGA807-Grey, EGA808-Red
	Finish/Sheen	Matt
	Part B (Curing Agent)	EGA809
	Volume Solids	75% ±2% (ISO 3233:1998)
	Mix Ratio	4 volume(s) Part A to 1 volume(s) Part B
	Typical Film Thickness	125 microns dry (167 microns wet)
	Theoretical Coverage	6 m ² /litre at 125 microns dft, allow appropriate loss factors
	Method of Application	Airless Spray
	Flash Point (Typical)	Part A 37°C; Part B 49°C; Mixed 39°C
	Induction Period	Not required

Drying Information	5°C	15°C	25°C	35°C
Touch Dry [ISO 9117/3:2010]	6 hrs	3.5 hrs	3 hrs	2.5 hrs
Hard Dry [ISO 9117-1:2009]	18 hrs	13 hrs	6 hrs	4 hrs
Pot Life	2 hrs	90 mins	60 mins	30 mins

Overcoating Data - see limitations	Substrate Temperature							
	5°C		15°C		25°C		35°C	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max
Intergard 263	18 hrs	7 days	12 hrs	7 days	6 hrs	7 days	4 hrs	7 days
Intergard 740	18 hrs	5 days	12 hrs	7 days	6 hrs	7 days	4 hrs	7 days
Intershield 803	18 hrs	7 days	12 hrs	7 days	6 hrs	7 days	4 hrs	5 days
Interthane 990	-	-	12 hrs	24 hrs	6 hrs	24 hrs	4 hrs	24 hrs

Note At temperatures <15°C, a coat of Intergard 263 is required prior to the application of Interthane 990. At temperatures between 15°C and 40°C, Interthane 990 can be applied direct, in accordance with the overcoating intervals stated. For application of Interthane 990 at temperatures in excess of 40°C consult your International Paint representative.

REGULATORY DATA	VOC	222 g/lit as supplied (EPA Method 24) 129 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC) 212 g/lit Chinese National Standard GB23985
		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.
	MIL SPEC	MIL-PRF-32171 Type 1 Class 1

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CERTIFICATION

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

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

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.

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.

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 Intershield 803, 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 the underwater hulls, abrasive blast cleaning to Sa2½ (ISO 8501-1:2007) is required.

REPAIR AND NEWBUILDING

Consult your International Paint representative for specific recommendations.

For spot repairs, Intershield 803 may be applied by brush or roller over areas less than 2m², prepared by power tooling, provided a minimum surface profile of 50µm is achieved. Several coats may be required to achieve the correct film thickness.

NOTE

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

SSPC-SP6 in place of Sa2 (ISO 8501-1:2007)

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

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APPLICATION

Mixing	Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. (1) Agitate Part A with a power agitator, (2) Combine entire contents of Part A and B and mix thoroughly with a power agitator.
Thinner	Not recommended unless thinning for use as a holding primer or applying at temperatures below 10°C. In these cases, use GTA220 at 5% by volume. DO NOT thin more than allowed by local environmental legislation. (If used as a holding primer below 10°C, 10% thinner should be used).
Airless Spray	Recommended Tip Range 0.53-0.66 mm (21-26 thou) Total output fluid pressure at spray tip not less than 211 kg/cm ² (3000 p.s.i.)
Conventional Spray	Application by conventional spray is not recommended.
Brush	Not recommended.
Roller	Not recommended.
Cleaner	International GTA822
Work Stoppages and Cleanup	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International 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 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.
Welding	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

Curing agent may cause sensitisation by inhalation - wear air-fed hood for spray application.

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LIMITATIONS

The coating will exhibit surface discolouration if immersed in seawater after application and curing at temperatures <10°C. This does not effect the performance characteristics of the product.

Intershield 803 will cure down to -5°C but will require a period of cure above 5°C to achieve full mechanical properties. Consult International Paint.

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
	20 lt	16 lt	20 lt	4 lt	5 lt
	5 US gal	4 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
	20 lt	38.24 Kg

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.
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WORLDWIDE AVAILABILITY EGA806-Black available in USA and Europe only. 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 or 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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