Intergard 821

Epoxy Filler

PRODUCT DESCRIPTION

A two pack epoxy filler.

INTENDED USES

For use as an anode shield and as a filler for pitted steel.
For use at Newbuilding, Maintenance & Repair or On Board Maintenance.

PRODUCT INFORMATION

Colour	EAA820-Grey
Finish/Sheen	Not applicable
Part B (Curing Agent)	EAA821
Volume Solids	100% (ISO 3233:1998)
Mix Ratio	1.00 volume(s) Part A to 1 volume(s) Part B
Typical Film Thickness	6000 microns dry (6000 microns wet) for use as an Anode Shield, up to 20,000 microns may be used as a filler
Theoretical Coverage	0.17 m²/litre at 6000 microns dft, allow appropriate loss factors
Method of Application	Trowel
Flash Point (Typical)	Part A 65°C; Part B 62°C; Mixed 62°C
Induction Period	Not required

Drying Information	5°C	10°C	23°C	35°C
Touch Dry [ISO 9117/3:2010]	10 hrs	9 hrs	6 hrs	2 hrs
Hard Dry [ISO 9117-1:2009]	48 hrs	42 hrs	24 hrs	12 hrs
Pot Life	4 hrs	3 hrs	60 mins	20 mins

Overcoating Data - see limitations

	Substrate Temperature							
	5°C		10°C		23°C		35°C	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max
Intergard 821	48 hrs	7 days	42 hrs	5 days	24 hrs	48 hrs	12 hrs	24 hrs

Note May be overcoated with Intergard and Intertuf products, consult International Paint for specific recommendations.

REGULATORY DATA

VOC

74 g/lt as supplied (EPA Method 24)
126 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)
48 g/lt 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.

Coating hazard marker GB 30981.2-S-Pb≤1000-NC Qualified for GB 30981.2-2025

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.

ANODE SHIELDS

NEWBUILDING/MAJOR REFURBISHMENT
Where necessary, remove weld spatter and smooth weld seams and sharp edges.
Abrasive blast clean to Sa2½ (ISO 8501-1:2007). If oxidation has occurred between blasting and application of Intergard 821, the surface should be reblasted to the specified visual standard.

REPAIR
Prepare bare areas of steel by blasting to Sa2½ ISO 8501:1. Feather or chip back surrounding area to a sound edge. Roughen the exposed edge of the existing Intergard 821 to provide a mechanical key. Overlap the Intergard 821 onto this abraded area.

PITS
Blast out to Sa2½ ISO 8501-1:2001. If cleaning cannot be carried out effectively by blasting, mechanically grind out the pits using a suitable carborundum head.
Apply appropriate primer before oxidation occurs.
Apply the Intergard 821 within the overcoating interval specified for the primer, (consult relevant primer data sheet).
Ensure that the area is clean and dry prior to application of Intergard 821.

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)

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APPLICATION	Other Knife or Trowel
Mixing	Combine 1 part EAA820 with 1 part EAA821 by volume and thoroughly mix to a uniform colour. Mix only the amount that can be used within the pot life.
Thinner	DO NOT THIN !
Airless Spray	Not applicable
Conventional Spray	Not applicable
Brush	Not applicable
Roller	Not applicable
Cleaner	International GTA822
Work Stoppages and Cleanup	Monitor material conditions, do not exceed pot life limitations. Clean all equipment immediately after use with International GTA822.
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

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LIMITATIONS

This product will not cure adequately below 5°C. For maximum performance the curing temperature should be above 10°C. In humid conditions, the surface of Intergard 821 may develop a "sweat" which must be washed off with fresh water before overcoating.

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
5 lt	2.5 lt	2.5 lt	2.5 lt	5 lt

For availability of other unit sizes consult International Paint

UNIT SHIPPING WEIGHT (TYPICAL)

Unit Size	Unit Weight
5 lt	4.42 Kg

STORAGE

Shelf Life: 24 months at 25°C. Subject to reinspection 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 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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