

Epoxy Primer

PRODUCT DESCRIPTION

ALUMINIUM EPOXY PRIMER

A surface tolerant universal pure epoxy primer for use as an anticorrosive touch up coating providing excellent corrosion protection and low temperature capability. Designed as a crew friendly onboard maintenance two pack universal primer (<340 g/l) specifically engineered to equal mix ratio offering simplified mixing and reduced wastage.

INTENDED USES

As an On Board Maintenance universal anticorrosive primer. Suitable for use with controlled cathodic protection.

PRODUCT INFORMATION

| | |
|-------------------------------|--|
| Colour | IIA121-Aluminium (A separate datasheet is available for Intershield One-2-One Red-IIA122) |
| Finish/Sheen | Matt |
| Part B (Curing Agent) | IIA125 |
| Volume Solids | 65% ±2% (ISO 3233:1998) |
| Mix Ratio | 1 volume(s) Part A to 1 volume(s) Part B |
| Typical Film Thickness | 75 microns dry (115 microns wet) |
| Theoretical Coverage | 8.67 m ² /litre at 75 microns dft, allow appropriate loss factors |
| Method of Application | Airless Spray, Brush, Roller |
| Flash Point (Typical) | Part A 39°C; Part B 27°C; Mixed 31°C |
| Induction Period | Not applicable |

| Drying Information | -5°C | 5°C | 25°C | 35°C |
|-----------------------------|--------|--------|-------|---------|
| Touch Dry [ISO 9117/3:2010] | 6 hrs | 4 hrs | 3 hrs | 60 mins |
| Hard Dry [ISO 9117-1:2009] | 28 hrs | 17 hrs | 4 hrs | 2 hrs |
| Pot Life | 6 hrs | 6 hrs | 2 hrs | 60 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 |
| Intergard 740 | 30 hrs | 7 days | 18 hrs | 7 days | 6.5 hrs | 7 days | 4 hrs | 7 days |
| Intersheen 579 | 30 hrs | 2 days | 18 hrs | 2 days | 6.5 hrs | 24 hrs | 4 hrs | 24 hrs |
| Intershield One-2-One Immersed Areas | 30 hrs | 14 days | 18 hrs | 14 days | 6.5 hrs | 14 days | 4 hrs | 14 days |
| Intershield One-2-One Non Immersed Areas | 30 hrs | 6 mths | 18 hrs | 6 mths | 6.5 hrs | 5.5 mths | 4 hrs | 3 mths |
| Interstores Polyurethane | 30 hrs | 7 days | 18 hrs | 7 days | 6.5 hrs | 7 days | 4 hrs | 3 days |
| Interthane 990 | 30 hrs | 3 days | 18 hrs | 3 days | 6.5 hrs | 3 days | 4 hrs | 3 days |

REGULATORY DATA

VOC

318 g/lit as supplied (EPA Method 24)
276 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)

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.

Epoxy Primer

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 (NOHH)
- Potable Water - Carriage of Potable Water (NSF-WRc) (BS6920)

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 the standard listed above.

Intershield One-2-One has also been tested to the following standard, however this is dependent upon formulation and/or manufacturing site:

- Water Ballast Tank - IMO PSPC WBT (LR)

Consult your local representative to confirm certification status.

SYSTEMS AND COMPATIBILITY

For Water Ballast Tanks, multiple coats of Intershield One-2-One Aluminium is the recommended scheme

Consult your local 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.

OBM - Exposed steel and corrosion:

Hand or power tool clean to a minimum St2 (ISO 8501-1:2007). Note, all scale must be removed and areas which cannot be prepared adequately by chipping or needle gun should be spot blasted to a minimum standard of Sa2 (ISO 8501-1:2007). Typically this would apply to C or D grade steel in this standard.

Intershield One-2-One is suitable for overlap onto most aged coating systems. When overcoating aged or exposed topcoats which have chalked it is recommended that the surface is lightly abraded before application of Interstores primer. Loose or flaking coatings should be removed back to a firm edge, the area to be overlapped should be abraded and Intershield One-2-One should be applied to overlap the existing coating by 2-3 centimetres (one inch). It is advisable that a small trial be carried out before applying a full coat over certain generic types.

Consult your local representative for specific recommendations.

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-SP2 in place of St2 (ISO 8501-1:2007)

Epoxy Primer

APPLICATION

| | |
|-----------------------------------|---|
| Mixing | Material is supplied in 2 containers as a unit. Once the unit has been mixed it must be used within the working pot life specified. (1) Prepare separate container (2) Agitate Base (Part A) with a power agitator and pour entire contents into separate container. (3) Agitate Curing Agent (Part B) with a power agitator and combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. (4) Where smaller quantities of material are required, ensure that equivalent volumes of Part A and Part B are mixed in the secondary container. |
| Thinner | 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. |
| Airless Spray | Recommended Tip Range 0.48-0.64 mm (19-25 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 | Recommended |
| Roller | Recommended |
| Cleaner | International GTA220/GTA822 |
| Work Stoppages and Cleanup | 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 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. |
| 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

Epoxy Primer

LIMITATIONS

Optimum performance is achieved when this coating is applied over St2 (ISO 8501-1:2007) prepared steel. In common with all epoxy based coatings Intershield One-2-One will exhibit chalking of the film on UV exposure. 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 and the relative humidity must not exceed 85%. 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 |
| | 10 lt | 5 lt | 5 lt | 5 lt | 5 lt |
| | 2 US gal | 1 US gal | 1 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 |
|--------------------------------|-----------|-------------|
| | | 10 lt |
| | 2 US gal | 23 lb |

| STORAGE | Shelf Life | 12 months at 25°C. Subject to re-inspection thereafter. Store in dry, shaded conditions at temperatures 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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