Intershield 300

Abrasion Resistant Aluminium Pure Epoxy

PRODUCT DESCRIPTION

A light coloured, abrasion resistant, aluminium pure epoxy coating giving excellent long term anticorrosive protection and low temperature application 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.

PRODUCT INFORMATION

Colour	ENA300-Bronze, ENA301-Aluminium
Finish/Sheen	Not applicable
Part B (Curing Agent)	ENA303
Volume Solids	60% ±2% (ISO 3233:1998)
Mix Ratio	2.50 volume(s) Part A to 1 volume(s) Part B
Typical Film Thickness	125 microns dry (208 microns wet). Range 100 - 200 microns dry (167 - 333 microns wet) may be specified depending upon end use.
Theoretical Coverage	4.8 m²/litre at 125 microns dft, allow appropriate loss factors
Method of Application	Airless Spray, Brush, Roller
Flash Point (Typical)	Part A 28°C; Part B 26°C; Mixed 28°C
Induction Period	Not required

Drying Information	-5°C	5°C	25°C	35°C
Touch Dry [ISO 9117/3:2010]	7 hrs	5 hrs	3 hrs	2 hrs
Hard Dry [ISO 9117-1:2009]	10 hrs	8 hrs	6 hrs	3 hrs
Pot Life	6 hrs	6 hrs	150 mins	60 mins

Note See Limitations section when Intershield 300 is used as part of an Intersleek scheme.

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 691	10 hrs	3 days	8 hrs	3 days	6 hrs	3 days	3 hrs	3 days
Interfine 979	-	-	8 hrs	7 days	6 hrs	7 days	3 hrs	7 days
Intergard 263	14 hrs	14 days	9 hrs	14 days	7 hrs	14 days	4 hrs	14 days
Intergard 269	14 hrs	6 mths	9 hrs	6 mths	7 hrs	6 mths	4 hrs	3 mths
Intergard 282	14 hrs	14 days	9 hrs	14 days	7 hrs	14 days	4 hrs	14 days
Intergard 740	14 hrs	14 days	9 hrs	14 days	7 hrs	14 days	4 hrs	14 days
Intershield 300	14 hrs	14 days	9 hrs	14 days	7 hrs	14 days	4 hrs	14 days
Immersed Areas Intershield 300 Non Immersed Areas	14 hrs	6 mths	9 hrs	6 mths	7 hrs	6 mths	4 hrs	3 mths
Intersleek 717	-	-	9 hrs	14 days	7 hrs	14 days	4 hrs	14 days
Intersleek 731	-	-	-	-	4 hrs	2 days	3 hrs	2 days
Intersleek 737	-	-	7 hrs	24 hrs	5 hrs	2 days	3 hrs	2 days
Interthane 990	14 hrs	5 days	9 hrs	5 days	7 hrs	3 days	4 hrs	2 days

Note

When overcoating with Intersleek 386, refer to the Intersleek 737 data.
Intershield 300 may be overcoated with Intersleek 737 at 0°C, the minimum interval being 12 hours and the maximum 30 hours.
Intershield 300 may be overcoated with Intersleek 731 above 15°C. At 15°C, the minimum interval being 5 hours and the maximum being 2 days. For application below 15°C consult International Paint.
When overcoating with Interbond 201 or Interbond 501, refer to the Intergard 740 data.
Interthane 990 may be used on boottop areas at reduced overcoating intervals. Consult International Paint.
Interfine 691 is currently only available in Europe.
When overcoating with Interfine 878, refer to the Interfine 979 data.

REGULATORY DATA

VOC

386 g/lt as supplied (EPA Method 24)
318 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)
329 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.

CERTIFICATION

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

- Food Contact - Carriage of Grain (NOHA)
- Tank Coatings - B1 Classification of Ballast Tank Coatings (DNV/Marintek tested)
- Tank Coatings - NORSOK M-501, Rev 3, system 7 (Marintek)
- Fire Resistance - Smoke & Toxicity (Exova Warringtonfire)
- Fire Resistance - Surface Spread of Flame (Exova Warringtonfire)
- Fire Resistance - Marine Equipment Directive compliant
- Food Contact - FDA Compliant: Dry Foodstuffs
- Potable Water - Carriage of Potable Water (TUV, Singapore) (BS6920:2000)

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 300 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. 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 minimum Sa2 (ISO 8501-1:2007) or International Paint Hydroblasting Standard HB2M. If oxidation has occurred between blasting and application of Intershield 300, 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 and application of Intersleek systems, consult International Paint for the detailed 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-SP6 in place of Sa2 (ISO 8501-1:2007)
SSPC-SP11 in place of Pt3 (JSRA SPSS:1984)

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APPLICATION

Mixing	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 a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.
Thinner	Use 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.
Airless Spray	Recommended Tip Range 0.66-0.79 mm (26-31 thou) Total output fluid pressure at spray tip not less than 211 kg/cm² (3000 p.s.i.)
Brush	Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
Roller	Application by roller is recommended for small areas only. Multiple coats will be required to achieve specified film thickness.
Cleaner	International GTA822/GTA220
Work Stoppages and Cleanup	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.
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

Intershield 300 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 300 may be applied at substrate temperatures down to -15°C. Before applications are made below -5°C consult your local IP representative for further detail of application procedure.
When Intershield 300 is to be overcoated with Intersleek 737, Intersleek 386 or Intersleek 731 the following maximum pot lives must be observed:
+ 0°C - 160 minutes
+15°C - 105 minutes
+25°C - 75 minutes
+35°C - 45 minutes

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

For availability of other unit sizes consult International Paint

UNIT SHIPPING WEIGHT (TYPICAL)

Unit Size	Unit Weight
17.5 lt	23.4 Kg

STORAGE

Shelf Life: 12 months at 25°C. Subject to re-inspection thereafter.
Typically 6 months at temperatures greater than 25°C. Consult International Paint for recommendations where storage temperatures exceed 25°C.
Store in dry, shaded conditions away from sources of heat and ignition.

WORLDWIDE AVAILABILITY Consult International Paint.

IMPORTANT NOTE

www.international-marine.com