Intershield 300HS

High Solids Abrasion Resistant Aluminium Pure Epoxy

PRODUCT DESCRIPTION

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

PRODUCT INFORMATION

Colour	ENA370-Bronze, ENA371-Aluminium, ENA372-Light Red
Finish/Sheen	Not applicable
Part B (Curing Agent)	ENA373
Volume Solids	78% ±2% (ISO 3233:1998)
Mix Ratio	2.50 volume(s) Part A to 1.00 volume(s) Part B
Typical Film Thickness	125 microns dry (160 microns wet). Range 100 - 200 microns dry (128 - 256 microns wet) may be specified depending upon end use.
Theoretical Coverage	4.88 m²/litre at 125 microns dft, allow appropriate loss factors
Method of Application	Airless Spray, Brush, Roller
Flash Point (Typical)	Part A 49°C; Part B 31°C; Mixed 41°C

Drying Information	-5°C	5°C	25°C	35°C
Touch Dry [ISO 9117/3:2010]	10 hrs	6 hrs	2 hrs	60 mins
Hard Dry [ISO 9117-1:2009]	24 hrs	14 hrs	4 hrs	2 hrs
Pot Life	4 hrs	2.5 hrs	75 mins	50 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 263	24 hrs	14 days	14 hrs	14 days	4 hrs	14 days	2 hrs	14 days
Intergard 5263	24 hrs	14 days	14 hrs	14 days	4 hrs	14 days	2 hrs	14 days
Intergard 740	24 hrs	ext	14 hrs	ext	4 hrs	ext	2 hrs	ext
Intergard 740HS	24 hrs	ext	14 hrs	ext	4 hrs	ext	2 hrs	ext
Intershield 300HS Immersed Areas	24 hrs	21 days	14 hrs	21 days	4 hrs	14 days	2 hrs	14 days
Intershield 300HS Non Immersed Areas	24 hrs	ext	14 hrs	ext	4 hrs	ext	2 hrs	ext
Interthane 989	24 hrs	7 days	14 hrs	7 days	4 hrs	7 days	2 hrs	4 days
Interthane 990	24 hrs	7 days	14 hrs	7 days	4 hrs	7 days	2 hrs	4 days

Note 'Extended' overcoating intervals apply when the surface has been sanded after the overcoating interval has exceeded 1 Month.

At temperatures above 5°C max re-coating interval is 18 days when the application is kept in a non-UV exposed condition such as an application shelter. Consult International Paint.

REGULATORY DATA

VOC

176 g/lt as supplied (EPA Method 24)
154 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)
179 g/lt Chinese National Standard GB23985
257 g/lt as supplied under Korea Clean Air Conservation Act

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.

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CERTIFICATION

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

- Fire Resistance - Surface Spread of Flame (Exova Warringtonfire)
- Fire Resistance - Smoke & Toxicity (Exova Warringtonfire)
- Fire Resistance - Marine Equipment Directive compliant
- Food Contact - Carriage of Grain (NOHH)

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.

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.

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

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 power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.
Thinner	International GTA220. 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 0.53-0.78 mm (21-31 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 may be required to achieve specified film thickness.
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. 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
South Korea - Contact Regional Office (82) 55-632-6286 / (82) 55-586-2310
China – Contact (86) 532 83889090
R.O.W. - Contact Regional Office

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LIMITATIONS

Intershield 300HS 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 300HS may be applied at substrate temperatures down to -10°C, however consideration should be given when overcoating at low temperatures as the remainder of the system may require higher temperatures to achieve full cure.

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
15 lt	10.71 lt	18 lt	4.29 lt	4.5 lt

For availability of other unit sizes consult International Paint

UNIT SHIPPING WEIGHT (TYPICAL)

Unit Size	Unit Weight
17.5 lt	22.5 Kg
15 lt	20.9 Kg

STORAGE

Shelf Life: 18 months at 25°C and 12 months at 35°C. Subject to re-inspection thereafter. Store in dry, shaded conditions at temperatures away from sources of heat and ignition.

WORLDWIDE AVAILABILITY

Available in Korea and Japan only. Consult International Paint.

IMPORTANT NOTE

www.international-marine.com