Intergard 400

Pure Epoxy

PRODUCT DESCRIPTION

A two pack epoxy abrasion resistant coating, containing micaceous iron oxide, which can be overcoated after extended periods.

INTENDED USES

As a general purpose primer for all non-permanently immersed areas.
For use at Newbuilding.

PRODUCT INFORMATION

Color	EPA001-MIO Dark Grey, EPA007-MIO Light Grey
Finish/Sheen	Not applicable
Part B (Curing Agent)	EPA740
Volume Solids	65% ±2% (ISO 3233:1998)
Mix Ratio	5.67 volume(s) Part A to 1 volume(s) Part B
Typical Film Thickness	5 mils dry (7.7 mils wet)
Theoretical Coverage	209 ft²/US gal at 5 mils dft, allow appropriate loss factors
Method of Application	Airless Spray, Roller, Brush
Flash Point	Part A 73°F; Part B 73°F; Mixed 77°F
Induction Period	30 minutes at temperatures below 77°F

Drying Information	32°F	41°F	77°F	95°F
Touch Dry [ISO 9117/3:2010]	12 hrs	3 hrs	2 hrs	60 mins
Hard Dry [ISO 9117-1:2009]	36 hrs	36 hrs	12 hrs	8 hrs
Pot Life	13 hrs	12 hrs	6 hrs	2 hrs

Overcoating Data - see limitations

	Substrate Temperature							
	32°F		41°F		77°F		95°F	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max
Intergard 269	26 hrs	ext	20 hrs	ext	16 hrs	ext	14 hrs	ext
Intergard 400	24 hrs	ext	16 hrs	ext	12 hrs	ext	8 hrs	ext
Intergard 410	24 hrs	ext	20 hrs	ext	16 hrs	ext	14 hrs	ext
Intergard 415	-	-	24 hrs	ext	16 hrs	ext	12 hrs	ext
Intergard 740	-	-	16 hrs	ext	12 hrs	ext	8 hrs	ext
Interthane 990	-	-	48 hrs	7 days	16 hrs	5 days	12 hrs	3 days
Intertherm 891	-	-	16 hrs	7 days	12 hrs	5 days	8 hrs	3 days

Note For overcoating Intergard 400 with Intergard 410, Intergard 415 and Intergard 740 see Special Note in Surface Preparation section.

REGULATORY DATA

VOC

307 g/lt (2.56 lb/US gal) as supplied (EPA Method 24)
221 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)
2.71 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 color and normal manufacturing tolerances.

CERTIFICATION

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

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

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 shop primers must be clean, dry and free from soluble salts and any other surface contaminants.
If the shop primer shows extensive or widely scattered breakdown, overall sweep blasting may be necessary.
Consult your International Paint representative for specific recommendations.

SPECIAL NOTE

When overcoating with Intergard 410, Intergard 415 and Intergard 740 the anticipated level of intercoat adhesion can only be achieved in "extended" overcoating situations when:
a) the aged coating has the "extended" surface characteristics required for long term overcoatability. For example, an over applied epoxy MIO may not have its usual "textured" surface and will no longer be overcoatable after aging unless it is abraded.
b) the coating to be overcoated is intact, tightly adherent, clean, dry and free of all contaminants.
c) coatings with a glossy surface are treated by light surface abrasion, sweep blasting or other suitable processes which do not cut through or detract from the performance of the underlying coating.

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

Mixing	Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. (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	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 18-23 thou (0.46-0.58 mm) Total output fluid pressure at spray tip not less than 2500 psi (176 kg/cm²)
Conventional Spray	Application by conventional spray is not recommended.
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 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, relative humidity 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 vapor 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 32°F. For maximum performance ambient curing temperature should be above 41°F.
Optimum performance is achieved when Intergard 400 is applied over blasted steel.

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 5°F above the dew point. For optimum application properties bring the material to 70°F-81°F, 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.
In the overcoating data section 'ext' = extended overcoating period. Please refer to our Marine Painting Guide - Definitions and Abbreviations available on our website.

UNIT SIZE

Unit Size	Part A		Part B	
	Vol	Pack	Vol	Pack
20 lt	17 lt	20 lt	3 lt	5 lt

For availability of other unit sizes consult International Paint

UNIT SHIPPING WEIGHT

Unit Size	Unit Weight
20 lt	36.04 Kg

STORAGE

Shelf Life: 12 months minimum at 77°F. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

WORLDWIDE AVAILABILITY

Consult International Paint.

IMPORTANT NOTE

www.international-marine.com