

Epoxy

PRODUCT DESCRIPTION

A two component, solvent free epoxy which can be applied underwater and will cure underwater to give a corrosion and abrasion resistant coating.

INTENDED USES

As a hand-applied repair compound for application to submerged steelwork and splashzone areas of offshore jackets, piling and other permanently wet areas where conventional coatings can not be used.

Interzone 101 can also be used on glass reinforced materials and concrete and is suitable for use at new construction as well as maintenance.

PRACTICAL INFORMATION FOR INTERZONE 101

Colour	Green
Gloss Level	Not applicable
Volume Solids	100%
Typical Thickness	4000-6000 microns (160-240 mils) dry equivalent to 4000-6000 microns (160-240 mils) wet
Theoretical Coverage	0.17 m ² /litre at 6000 microns and stated volume solids 6.7 sq.ft/US gallon at 240 mils and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Hand Moulding, Knife, Squeegee, Trowel
Drying Time	

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
10°C (50°F)	¹	48 hours	Not applicable	Not applicable
15°C (59°F)	¹	24 hours	Not applicable	Not applicable
25°C (77°F)	¹	8 hours	Not applicable	Not applicable
40°C (104°F)	¹	3 hours	Not applicable	Not applicable

¹ Touch dry times not applicable for this product.

REGULATORY DATA

Flash Point (Typical)	Part A >101°C (214°F); Part B >101°C (214°F); Mixed >101°C (214°F)		
Product Weight	1.58 kg/l (13.2 lb/gal)		
VOC	0.00 lb/gal (0 g/lit) 5 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)	
See Product Characteristics section for further details			

Protective Coatings

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SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by fresh water washing.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. If oxidation has occurred between blasting and application of Interzone 101, 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.

A surface profile of 75-100 microns (3-4 mils) is recommended.

When applying to bare steel substrates below water or in permanently wet conditions, the surface should be prepared by power discing with a carborundum disc or by needle gun to achieve a clean, roughened surface in accordance with SSPC-SP11 Power Tool Cleaning.

APPLICATION

Mixing	Only one 12 litre unit should be mixed at a time. To remove contents from their tins, cut both the top and bottom of the tin using a tin opener and push the material out. In cold weather, warming may be necessary.			
	Mixing should be carried out on a large, clean, smooth sheet of steel, tinplate or hardboard using palette knives, scraper blades or trowels. DO NOT ADD WATER OR THINNERS TO THE MIX as this will reduce the strength of the cured composition. The material should be thoroughly mixed until the separate yellow and blue colours have been completely merged to a bright green colour, free of yellow and blue streaks. Avoid beating air into the mixture and 'fold' the components together.			
Mix Ratio	1 part(s) : 1.14 part(s) by volume			
Working Pot Life	10°C (50°F) 90 minutes	15°C (59°F) 75 minutes	25°C (77°F) 60 minutes	40°C (104°F) 15 minutes
Thinner	DO NOT THIN		Interzone 101 should not be thinned under any circumstances.	
Cleaner	International GTA822 (or International GTA415)			
Work Stoppages	Thoroughly flush all equipment with International GTA822. Once units of paint have been mixed, they should not be resealed.			
Clean Up	Clean all equipment immediately after use with International GTA822. It is good working practice to periodically clean equipment during the course of the working day. Frequency of cleaning will depend upon amount used, temperature and elapsed time, including any delays.			
	All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.			

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PRODUCT CHARACTERISTICS

Interzone 101 is a specialist product designed for a specific end use. Detailed application instructions for Interzone 101 are available from International Protective Coatings.

Application - Onshore (New Fabrication, Dry Conditions)

Application is by hand moulding. Applicators must wear rubber nitrile gloves and appropriate skin protection. Gloves may be moistened with water to assist in application and stop Interzone 101 from sticking to gloves.

When applying the coating it is advisable to use a depth mark. Fix a 9mm (3/8") band or strip to the surface at intervals and work the coating up to these marks. Smooth the coating with rubber/nitrile gloves or rollers using a little water on the coating surface to prevent sticking. **Do not incorporate water into the coating.**

Check the overall film thickness by pressing a sharp spike marked at 6mm (1/4") into the coating. Any thin areas can then be built up and spike marks, air bubbles, etc repaired. It is advisable not to aim for a cosmetic smooth finish but to ensure a 6mm (1/4") film with no defects.

A PVC mesh can be used to assist application.

Application - Offshore (Intermittently Wet Area)

1. Use PVC mesh cut to size and wrapped tightly around the substrate. Use wire to secure the mesh firmly so that it does not slip. All wire must be tacked under the mesh. After mixing, force the Interzone 101 well into the mesh using gloved hands.

2. Lay a sheet of PVC cloth on the ground and coat with Interzone 101 to approx. 6mm (1/4"). Place the coated PVC onto the steel and wrap around the substrate using a rope or wire to keep it in place. The PVC sheet can be peeled off after the coating has cured.

Application - Underwater

This is a fairly difficult technique which requires thorough planning. For small areas, 5.0 - 7.5cm (2-3") diameter, small handleable quantities of Interzone 101 should be mixed and then taken by diver to the area to be repaired. For larger areas, either of the methods described above can be used. Always ensure small amounts of material are fully adherent to the substrate before progressing.

When Interzone 101 has exceeded its working pot life the product commences curing, becomes rubbery and this change in character can be easily observed. At this stage the product must be discarded. Further material must not be mixed on top of cured or curing material. Therefore, use a fresh surface for mixing or thoroughly clean the surface with solvent.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

In most circumstances this product is applied direct to steel and is not overcoated.

Where a blast holding primer may be required then Interline 982 should be used and must be overcoated within a maximum of 10 days.

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ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

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.

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.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Part A	Part B
		Vol	Pack
	12 litre	5.6 litre	10 litre
6.4 litre			
10 litre			
For availability of other pack sizes, contact International Protective Coatings.			
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B
	12 litre	10.72 kg	10.84 kg
	U.N. Shipping No. Non Hazardous		
STORAGE	Shelf Life	18 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

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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