

Interzone[®] 101

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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 cannot be used.

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

Practical Information for Interzone 101

Color Green
Gloss Level Not applicable
Volume Solids 100%
Typical Thickness 240 mils (6,000 microns) dry equivalent to 240 mils (6,000 microns) wet
Theoretical Coverage 6.68 sq.ft./US gallon at 240 mils d.f.t. and stated volume solids
 0.17 m²/liter at 6,000 microns d.f.t. and stated volume solids
Practical Coverage Allow appropriate loss factors
Method of Application Hand moulding, Palette knife, Trowel

Drying Time

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

Regulatory Data

Flash Point Base (Part A) >214°F (>101°C) C/A (Part B) >214°F (>101°C) Mixed >214°F (>101°C)
Product Weight 13.2 lb/gal (1.6 kg/l)
VOC 0.00 lb/gal (0.00 g/l) (Calculated) USA - EPA Method 24
 0.00 g/l (Calculated) UK - PG6/23(92), Appendix 3

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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, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992.

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 SSPC-SP10 or Sa2½ (ISO 8501-1:1988). 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 3-4 mils (75-100 microns) is recommended.

When applying to bare steel substrates below water or in permanently wet conditions the surface should be prepared by power disk grinding 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 liter 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, tinsplate or hardboard using palette knives, scraper blades or trowels. **DO NOT ADD WATER OR THINNERS TO THE MIX** as this will reduce strength of cured composition. The material should be thoroughly mixed until the separate yellow and blue colors have been completely merged to a bright green color, free of yellow and blue streaks. Avoid beating air into the mixture and 'fold' the components together.

Mix Ratio

1.00 parts : 1.14 parts by volume

Working Pot Life

50°F (10°C)	59°F (15°C)	77°F (25°C)	104°F (40°C)
90 minutes	75 minutes	60 minutes	15 minutes

Thinner

DO NOT THIN Interzone 101 should not be thinned under any circumstances.

Cleaner

International GTA415
(or GTA822)

Work Stoppages

Thoroughly flush all equipment with International GTA415. Once units of paint have been mixed they should not be resealed.

Clean Up

Clean all equipment immediately after use with International GTA415. 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 the gloves.

When applying the coating it is advisable to use a depth mark. Fix a $\frac{3}{8}$ " (9 mm) 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 $\frac{1}{4}$ " (6 mm) 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 $\frac{1}{4}$ " (6 mm) 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. $\frac{1}{4}$ " (6 mm). 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, 2-3" (5.0-7.5 cm) 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, it 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.

Due to the presence of low molecular weight chemicals in the formulation, some VOC may be recorded when this product is tested in accordance with the UK-PG6/23(92), Appendix 3 and USA-EPA Method 24 protocols. This is due to the high temperatures used in the test procedures.

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 sections of the International Protective Coatings data manual:

- 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	12 liter unit	Interzone 101 Base	5.6 liters in a 10 liter container
		Interzone 101 Curing Agent	6.4 liters in a 10 liter container

For availability of other pack sizes contact International Protective Coatings

Shipping Weight	U.N. Shipping No.	Non Hazardous
	12 liter unit	23.64 lb (10.72 kg) Base (Part A) 23.90 lb (10.84 kg) Curing Agent (Part B)

Storage	Shelf Life	18 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.
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Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. While we endeavor to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or 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 whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 13th August 2003

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International Protective Coatings

Worldwide Availability

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