

Interzone 485

Ultra high build epoxy



Product Description

An ultra high build catalysed epoxy

Apply by standard 45:1 airless spray.
Can be applied up to 3 mm.
High volume solids, economical to apply.
Excellent resistance to alkalis, chemicals and petroleum products.
Compatible with sacrificial anode or impressed current cathodic protection.
Not affected by early water immersion, will cure underwater.
Excellent abrasion resistance.

Intended Uses

As a coating for steel in severe environments

Wharf piles, offshore oil and gas platforms, and ship loading facilities.
A tough deck coating - broadcast aggregate on to wet film.
As a shop or field applied coating for hot, cathodically protected oil or gas pipelines.
Tank lining for abrasive slurry e.g. CIL/CIP tanks in the gold industry.

Practical Information for Interzone 485

Colour Grey

Gloss Level Semi gloss

Volume Solids 99%

Typical Thickness 1000-3000 microns (40-120 mils) dry equivalent to 1000-3000 microns (40-120 mils) wet

Theoretical Coverage 1 m²/litre at 1000 microns d.f.t and stated volume solids
40.8 sq.ft/US gallon at 40 mils d.f.t and stated volume solids

Practical Coverage Allow appropriate loss factors

Method of Application Airless spray

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval Interzone 485 with Self		Overcoating Interval with recommended topcoats	
			Minimum	Maximum	Minimum	Maximum
10°C (50°F)	14 hours	72 hours	72 hours	21 days	72 hours	4 days
15°C (59°F)	8 hours	36 hours	36 hours	14 days	36 hours	3 days
25°C (77°F)	4 hours	24 hours	24 hours	10 days	24 hours	3 days
40°C (104°F)	2 hours	12 hours	12 hours	7 days	12 hours	1 day

Regulatory Data

Flash Point Base (Part A) 32°C (90°F) C/A (Part B) >65°C (>149°F) Mixed 63°C (145°F)

Product Weight 1.10 g/l (9.2 lb/gal)

VOC 74 g/l UK - PG6/23(92), Appendix 3



Ecotech is an initiative by International Protective Coatings a world leader in coating technology to promote the use of environmentally sensitive products across the globe.

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Surface Preparation

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

For immersion service, Interzone 485 must be applied to surface blast cleaned to a minimum of Sa2½ (ISO 8501-1:1988) SSPC SP10. However, for atmospheric exposure Interzone 485 may be applied to surfaces prepared to a minimum of Sa2½ (ISO 8501-1:1988) SSPC SP6. Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner.

Surface profile must be a minimum of 50 microns (2 mils).

Interzone 485 can be applied over Interline 982. The primer surface should be dry and free from all contamination, and Interzone 485 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

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. <ol style="list-style-type: none">(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.			
Mix Ratio	4 parts : 1 part by volume			
Working Pot Life	10°C (50°F) 1 hour	15°C (59°F) 1 hour	25°C (77°F) 45 minutes	40°C (104°F) 30 minutes
Airless Spray	Recommended	- Tip range 0.76 mm (30 thou) - Total output fluid pressure at spray tip not less than 282 kg/cm ² (4,000 p.s.i.)		
Air Spray (Pressure Pot)	Not suitable			
Brush	Not suitable			
Roller	Not suitable			
Thinner	International GTA203 Thin up to 3%			
Cleaner	International GTA853 (or GTA203)			
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA853 (or GTA203). 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 Up	Clean all equipment immediately after use with International GTA853 (or GTA203). 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. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.			

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Product Characteristics

Interzone 485 is suitable for use with cathodic protection with or without the recommended primer.

For specific chemical resistance contact International Protective Coatings

This product will not cure adequately below 5°C (41°F). For maximum performance ambient curing temperatures should be above 10°C (50°F).

In high impact and abrasion applications do not use primer and apply over a minimum surface profile height of 75 microns (3 mils).

At high film thickness, >2000 microns (80 mils) apply in two coats to minimise rough surface texture and indentations.

Care should be taken to avoid over application of any priming system used under Interzone 485. Excessive primer film thickness could lead to splitting of the film when overcoated with Interzone 485.

At temperatures below 20°C (68°F) larger pumps and tip sizes may be required to achieve atomisation. Care must be taken not to over atomise the product as this will result in a rough surface texture and indentations.

Optimum application conditions are as follows;

Apply using a minimum airless pump of 45:1.

Storage must be between 20-30°C (68-86°F) to ensure suitable application viscosity.

Remove all line filters.

Thoroughly blend both components together as specified and thin up to 3% with International thinner GTA203.

Do not use excessive air pressure. Adjust fluid pressure and tip size to achieve suitable atomisation. Refer to application methods.

Fluid line should have a diameter no less than ½" (13mm) with a 3/8" (9mm) diameter whip end no longer than 5 metres (16.4 ft).

Systems Compatibility

The following primer is recommended for Interzone 485:

Interline 982

The following topcoats are recommended for Interzone 485

Interfine 629HS

Intergard 740

Interthane 870

Interthane 990

Interthane 990HS

Interzone 485

For other suitable primers and topcoats, contact International Protective Coatings

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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	20 litre unit	Interzone 485 Base	16 litres in a 20 litre steel container
		Interzone 485 Curing Agent	4 litres in a 4 litre steel container
	5 gallon unit	Interzone 485 Base	4 gallons in a 5 gallon steel container
		Interzone 485 Curing Agent	1 gallon in a 1 gallon steel container
For availability of other pack sizes contact International Protective Coatings			
Shipping Weight	U.N. Shipping No. 1263		
	20 litre unit	19.5 kg (42.9 lb) Base (Part A)	4.5 kg (9.9 lb) Curing Agent (Part B)
	5 gallon unit	18.5 kg (40.8 lb) Base (Part A)	4.3 kg (9.4 lb) Curing Agent (Part B)
Storage	Shelf Life	24 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

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. Whilst we endeavour 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 from 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: 18/07/2002

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International Protective Coatings

Worldwide Availability

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England		Australia	England			

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