

## Surface Tolerant Epoxy

**PRODUCT DESCRIPTION** Interdur 8814 is a high performance, multi-purpose, surface tolerant, two-component chemically-cured epoxy semi-gloss coating.

**INTENDED USES** For use on properly prepared steel or masonry surfaces including immersion (non-potable water) service. Ideal for structural steel, piping, storage tank exteriors, machinery, and equipment in petroleum refineries, pulp and paper mills, chemical and fertiliser plants, and sewage treatment plants.

**PRACTICAL INFORMATION FOR INTERDUR 8814**

<b>Colour</b>	A limited range of colours
<b>Gloss Level</b>	Semi-gloss
<b>Volume Solids</b>	68% ± 2%
<b>Typical Thickness</b>	100-200 microns (4-8 mils) dry equivalent to 147-294 microns (5.9-11.8 mils) wet
<b>Theoretical Coverage</b>	4.53 m <sup>2</sup> /litre at 150 microns d.f.t and stated volume solids 182 sq.ft/US gallon at 6 mils d.f.t and stated volume solids
<b>Practical Coverage</b>	Allow appropriate loss factors
<b>Method of Application</b>	Air Spray, Airless Spray, Brush, Roller
<b>Drying Time</b>	

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
-5°C (23°F)	12 hours	46 hours	28 hours	7 days
5°C (41°F)	4.5 hours	18 hours	11 hours	6 days
15°C (59°F)	3 hours	9 hours	6 hours	5 days
25°C (77°F)	2 hours	5 hours	3 hours	5 days

**REGULATORY DATA**

<b>Flash Point (Typical)</b>	Part A 38°C (100°F); Part B 38°C (100°F); Mixed 38°C (100°F)		
<b>Product Weight</b>	1.32 kg/l (11.0 lb/gal)		
<b>VOC</b>	2.43 lb/gal (292 g/lit)	EPA Method 24	Chinese National Standard GB23985
	264 g/lit		

See Product Characteristics section for further details

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### SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mortar spatter, mill scale, and rust. All direct to metal coatings provide maximum performance over blasted surfaces. There are situations and cost limitations which preclude blasting. Interdur 8814 was designed to provide excellent protection over less than ideal surface preparation. The minimum standard for non-immersion service is St2 (GB 8923-1:1988); for immersion service the minimum standard is Sa2 (GB 8923-1:1988). These minimum surface preparation standards apply to steel that has been previously abrasive blasted, coated and deteriorated. All direct to metal coatings provide maximum performance over near-white blasted surfaces.

#### Steel:

New steel surfaces should be initially abrasive blasted to near-white metal surface cleanliness in accordance with Sa2.5 (GB 8923-1:1988). Blast profile on steel should be at least 63 microns in depth and be of a sharp, jagged nature as opposed to a "peen" pattern (typically obtained in shot blasting).

#### Concrete Block:

Remove loose aggregate and repair voids. Fill with Interdur 8814.

#### Concrete Floors, Poured Concrete:

Cure at least 30 days. Acid etch or abrasive blast slippery, glazed concrete or concrete with laitance. Prime with Interdur 8814.

#### Galvanised Steel

Remove dirt and oils by solvent cleaning or other suitable detergent/cleaner followed by a thorough water rinsing.

#### Previously Painted Surfaces:

Old coatings should be tested for lifting. If lifting occurs, remove the coating. Otherwise, scuff sand glossy areas and aged epoxy coatings. Clean aged epoxy or urethane coatings with International GTA110. Remove cracked and peeling paint. Prime bare areas with appropriate primer. If thinning is required, use International GTA007 only when used over aged alkyd coatings.

### APPLICATION

<b>Mixing</b>	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 a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.		
<b>Mix Ratio</b>	4 part(s) : 1 part(s) by volume		
<b>Working Pot Life</b>	-5°C (23°F) 6 hours	5°C (41°F) 5 hours	15°C (59°F) 25°C (77°F) 5 hours 4.5 hours
<b>Airless Spray</b>	Recommended	Tip Range 0.48-0.63 mm (19-25 thou) Total output fluid pressure at spray tip not less than 207 kg/cm <sup>2</sup> (2944 p.s.i.) See Product Characteristics section for further details	
<b>Air Spray (Conventional)</b>	Suitable	See Product Characteristics section for further details	
<b>Brush</b>	Suitable		
<b>Roller</b>	Suitable		
<b>Thinner</b>	International GTA110	Not normally required	
<b>Cleaner</b>	International GTA110	Choice of cleaner maybe subject to local legislation. Please consult your local representative for specific advice.	
<b>Work Stoppages</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA110. 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.		
<b>Clean Up</b>	Clean all equipment immediately after use with International GTA110. 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 material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.		

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### PRODUCT CHARACTERISTICS

#### Advantages:

- Exceptional corrosion protection
- Suitable for salt and fresh water immersion
- Low temperature cure to -18°C
- Surface tolerant
- Good adhesion to damp surfaces
- Self-priming for steel and masonry substrates
- Fast Recoat
- High solids – high film build

Interdur 8814 may yellow during application and cure if exposed to the combustion by-products of improperly vented fossil fuel burning heaters.

Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Thinning is not normally required or desired; however, at extreme environmental conditions, small amounts (15% or less by volume) of International GTA110 can be added depending on local VOC and air quality regulations. Any solvent addition should be made after the two components are thoroughly mixed.

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.

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### SYSTEMS COMPATIBILITY

The following primers are recommended for Interdur 8814:

- Interdur 8803
- Interdur 8804
- Interdur 8806
- Interdur 8807
- Interdur 8809
- Interdur 8810

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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](http://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 Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

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 AkzoNobel for further advice.

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	20 litre	16 litre	20 litre	4 litre	5 litre

For availability of other pack sizes, contact AkzoNobel.

SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B
	20 litre	24.06 kg	4.5 kg

STORAGE	Shelf Life	
		24 months 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](http://www.international-marine.com) or [www.international-pc.com](http://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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