

## Epoxy

### PRODUCT DESCRIPTION

A two component clear epoxy sealer.  
 Can be applied to slightly damp concrete.  
 Cures quickly, long pot life.  
 Excellent resistance to most alkalis, solvents, mild acids and water.  
 Good toughness and resilience.  
 Excellent binding properties to weathered fibrous cement sheeting.

### INTENDED USES

As a sealer for porous concrete prior to application of other flooring finishes.  
 As a clear dust sealer for warehouses, machinery rooms or low traffic areas.  
 As a finish for wooden floors if polyurethane is not suitable.  
 As a sealer for aged asbestos sheeting.

### PRACTICAL INFORMATION FOR INTERGARD 436

**Colour** Clear  
**Gloss Level** Gloss  
**Volume Solids** 50%  
**Typical Thickness** 30 microns (1.2 mils) dry equivalent to 60 microns (2.4 mils) wet  
**Theoretical Coverage** 16.70 m<sup>2</sup>/litre at 30 microns d.f.t and stated volume solids  
 668 sq.ft/US gallon at 1.2 mils d.f.t and stated volume solids  
**Practical Coverage** Allow appropriate loss factors  
**Method of Application** Airless Spray, Air Spray, Brush, Roller

#### Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
10°C (50°F)	6 hours	16 hours	16 hours	14 days
15°C (59°F)	4 hours	12 hours	12 hours	7 days
25°C (77°F)	3 hours	6 hours	6 hours	5 days
40°C (104°F)	1 hour	2 hours	2 hours	3 days

### REGULATORY DATA

**Flash Point (Typical)** Part A <10°C (50°F); Part B >65°C (149°F); Mixed <10°C (50°F)  
**Product Weight** 0.99 kg/l (8.3 lb/gal)  
**VOC** 502 g/l UK - PG6/23(04), Appendix 3

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### SURFACE PREPARATION

#### Concrete - Old

Completely remove any existing coating by abrasive blasting. Sound existing epoxy coating may be left in place but abrade surface thoroughly to provide key for next coat. Intergard 436 may be applied to old clean concrete floors without further surface preparation. All surfaces should be clean, dry and free from grease, oil, dirt and loose or disintegrating concrete

#### Concrete - New

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also be sweep blasted (preferred) or acid etched to remove laitence. Large cracks should be filled with the appropriate filler.

#### Wood

Surface should be clean, dry and free from contamination. Remove old, loose or flaking paint. Sand after first coat. Apply direct.

#### Fibrous Cement and Asbestos Sheeting

Loose rubbish, sticks and leaves must be removed. Growths of moss (not lichens) must be removed by hand and surface must be dry before application. Any moss material collected from the roof must be collected in plastic bags, sealed and disposed of according to local government regulations for asbestos contaminated materials.

### 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>	1 part(s) : 1 part(s) by volume			
<b>Working Pot Life</b>	10°C (50°F)	15°C (59°F)	25°C (77°F)	40°C (104°F)
	16 hours	12 hours	8 hours	4 hours
<b>Airless Spray</b>	Suitable	Tip Range 0.43-0.53 mm (17-21 thou) Total output fluid pressure at spray tip not less than 106 kg/cm <sup>2</sup> (1507 p.s.i.)		
<b>Air Spray (Pressure Pot)</b>	Suitable	Gun	DeVilbiss MBC or JGA	
		Air Cap	704 or 765	
		Fluid Tip	E	
<b>Brush</b>	Suitable			
<b>Roller</b>	Suitable			
<b>Thinner</b>	International GTA220			
<b>Cleaner</b>	International GTA220			
<b>Work Stoppages</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA220. 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 GTA220. 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

A test patch should be made to accurately assess coverage of Intergard 436 on the actual surface being coated.

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

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

For fibrous cement sheeting use a power roller with contour sponge.

### SYSTEMS COMPATIBILITY

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The following topcoat is recommended for Intergard 436 when coating concrete floors;

Intergard 435

The following topcoats are recommended for Intergard 436 when coating fibrous cement sheeting;

Intercryl 530  
Intercryl 988

For other suitable primers/topcoats, consult 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 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 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	Vol	Pack
	20 litre	10 litre	20 litre	10 litre	10 litre
	5 US gal	2.5 US gal	5 US gal	2.5 US gal	3 US gal
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	20 litre	11.5 kg		10.5 kg	
	5 US gal	23.6 lb		21.8 lb	
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.			

### 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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