

Water Borne Epoxy

 PRODUCT
 A high performance, low VOC, water borne two component epoxy with a high gloss finish.

 INTENDED USES
 A tough, hard wearing chemically resistant epoxy finish suitable for most circumstances where the odour or emissions from solvent based coatings are unacceptable.

 For use on structural steel and equipment in a range of aggressive environments including those

found in chemical and petrochemical plants, pulp and paper mills and power stations in both new construction and industrial maintenance situations, under controlled conditions.

Suitable for application to correctly prepared concrete floors and walkways.

PRACTICAL INFORMATION FOR INTERGARD 1735

Colour	Wide range via the Chromascan system
Gloss Level	High Gloss
Volume Solids	$50\% \pm 3\%$ (depends on colour)
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 100-150 microns (4-6 mils) wet
Theoretical Coverage	10 m ² /litre at 50 microns d.f.t and stated volume solids 401 sq.ft/US gallon at 2 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Air Spray, Airless Spray, Brush, Roller
Drying Time	

			Overcoating i	Overcoating interval with self	
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
10°C (50°F)	3 hours	30 hours	30 hours	Extended ¹	
15°C (59°F)	2 hours	22 hours	22 hours	Extended ¹	
25°C (77°F)	1 hour	12 hours	12 hours	Extended ¹	
40°C (104°F)	30 minutes	5 hours	5 hours	Extended ¹	
¹ See International Protective Coatings Definitions and Abbreviations					

REGULATORY DATA

Flash Point (Typical)Part A >101°C (214°F); Part B >101°C (214°F); Mixed >101°C (214°F)Product Weight1.21 kg/l (10.1 lb/gal)VOC66 g/kgEU Solvent Emissions Directive
(Council Directive 2010/75/EU)

See Product Characteristics section for further details

Protective Coatings

AkzoNobel



Water Borne Epoxy

SURFACE PREPARATION

APP

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 8504:2000.

Strict adherence to all cleanliness standards is essential for application of water based coatings.

Primed Surfaces

Intergard 1735 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Intergard 1735 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Intergard 1735.

Plaster, Cement Render, Concrete etc.

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.

Surface should be clean, dry and free from contamination. Remove old, loose or flaking paint. Fill and sand minor defects.

Damp patches, oil staining, bitumen bleed, nicotine deposits, efflorescence and rust discolouration must either be treated at source, or better, the cause of such stains/defects removed. Existing mould, algae and other growth must be killed before commencing work. Domestic strength bleach diluted 1:4 with water or a proprietary fungicide solution should be used. Two treatments may be necessary, after which the area must be washed down and scrubbed to remove residues. Ideally, to prevent future infestations the conditions which support growth should be identified and cure sought.

LICATION	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. (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 part(s) : 1 pa	art(s) by volum	e		
	Working Pot Life	10°C (50°F)	15°C (59°F)	25°C (77°F)	40°C (104°F)	
		1 hour	1 hour	2 hours	2 hours	
	Airless Spray	Recommended		Tip Range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 141 kg/cm² (2005 p.s.i.)		
	Air Spray (Pressure Pot)	Recommended	d G A Fl	un ir Cap luid Tip	DeVilbiss MBC or JGA 704 or 765 E	
	Brush	Recommended	d T	ypically 50 micror	ns (2.0 mils) can be achieve	d
	Roller	Recommended	d T	ypically 50 micror	ns (2.0 mils) can be achieve	d
	Thinner	International G (or clean water	r) D	o not thin more the not the not the not the notice the	nan allowed by local slation	
	Cleaner	International GTA991 (or clean water)				
	Work Stoppages	Do not allow m flush all equipr units of paint h that after prolo	naterial to remain nent with clear ave been mixe nged stoppage	ain in hoses, gun n water followed l ed they should no es work recomme	or spray equipment. Thorou by International GTA991. Or t be resealed and it is advis inces with freshly mixed uni	ighly nce ed ts.
	Clean Up	Clean all equip International G equipment dur upon amount s	oment immedia TA991. It is go ing the course sprayed, tempe	ately after use wit bod working pract of the working da erature and elaps	n clean water followed by ice to periodically flush out ay. Frequency should deper ed time, including any delay	spray nd vs.
		All surplus mat with appropriat	erial and empt te regional reg	ty containers sho ulations/legislatio	uld be disposed of in accord	lance



Water Borne Epoxy

PRODUCT CHARACTERISTICS Apply by air or airless spray. Thoroughly flush equipment with International GTA991 thinner, or alcohol, followed by water prior to use. To obtain maximum edge protection and film build, airless or air spray application is recommended. Application by other methods, e.g. brush or roller, may require more than one coat.

As with all water borne coatings careful control of application conditions is required to ensure good performance.

The following basic parameters must be adhered to:

Intergard 1735 must be protected from freezing at all times during storage.

The minimum steel temperature for application must be above 10°C (50°F), and be at least 3°C (5°F) above dew point.

The relative humidity should be lower than 70% otherwise drying and overcoating times will be severely extended.

Good airflow is essential around the object being painted [minimum air speed 0.1m/sec (4 inches/sec)].

Minor areas which are difficult to ventilate should be brush applied to prevent over-application.

Application below the minimum film forming temperature (M.F.F.T.) of the coating and/or poor ventilation will result in poor film coalescence and a powdery cracked film which will require removal and re-application.

With Intergard 1735, no increase in viscosity is observed after mixing, even after long periods. However, if the stated pot lives are exceeded then the film formed on curing will have inferior properties and will not give the specified level of performance. Unlike solvent based epoxies, the pot life of Intergard 1735 is shorter at low temperatures.

For application to plaster, cement render, concrete, blockwork etc., it is recommended that Intergard 1735 is thinned by 10-20% for use as a primer / sealer coat. One or two coats should be applied to provide good penetration and sealing of the substrate prior to application of a further full coat of Intergard 1735.

Intergard 1735 is not suitable as a primer for systems designed for permanent water immersion.

In common with all epoxies Intergard 1735 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Intergard 1735 is capable of application to sound alkyd and to single pack water based systems to allow upgrading for chemical and wear resistance.

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.

SYSTEMS COMPATIBILITY The following primers are recommended for Intergard 1735:

Water borne

InterH2O 280 InterH2O 401

Solvent borne

Intercure 200 Intercure 420 Intergard 251 Intergard 269 Intergard 475HS Interseal 670HS Interzinc 42 Interzinc 52 Interzinc 315

For other suitable primers, consult International Protective Coatings.



Water Borne Epoxy

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 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 s for further advice.	uitability of use of this pro	duct, consult International Protective Coat	ings	
PACK SIZE	Unit Size	Part A Vol Pack	Part B Vol Pack		
	5 litre	4 litre 5 litre	1 litre 1 litre		
	5 US gal	4 US gal 5 US gal	1 US gal 1 US gal		
	For availability of o	other pack sizes, contact li	nternational Protective Coatings.		
SHIPPING WEIGHT	Unit Size	Part A	Part B		
(TYPICAL)	5 US gal	45.2 lb	9.5 lb		
	5 litre	5.5 kg	1.2 kg		
	U.N. Shipping No. Non Hazardous				
STORAGE	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Protect from freezing at all times during storage.			
Important Note					
The information in this data sheet obtaining written confirmation from (whether in this data sheet or othe	is not intended to be exhaustive; any per- o us as to the suitability of the product for rwise) is correct to the best of our knowle	son using the product for any purpose the intended purpose does so at their adae but we have no control over the o	other than that specifically recommended in this data sheet with own risk. All advice given or statements made about the produ upality or the condition of the substrate or the many factors affect	hout first ct tina the	

(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. Copyright © AkzoNobel, 18/09/2018.

All trademarks mentioned in this publication are owned by, or licensed to, the AkzoNobel group of companies.

www.international-pc.com