

Epoxy

PRODUCT DESCRIPTION

A high build, high performance, two component epoxy intermediate or finish with excellent chemical and abrasion resistance.

Available with conventional pigmentation or alternatively, pigmented with micaceous iron oxide to provide enhanced overcoating properties.

INTENDED USES

Suitable for use as part of a high performance coating system to provide an anti-corrosive barrier in areas where aggressive corrosion conditions prevail.

Intergard 966 can be used either as a coloured intermediate/undercoat for high performance durable finishes or alternatively, can act as a finish coating where a high quality, decorative finish is not required.

Widely used in both new construction and industrial maintenance on offshore structures, chemical plants, power stations and pulp and paper plants .

PRACTICAL INFORMATION FOR INTERGARD 966

Colour	Light Grey MIO plus a limited range			
Gloss Level	Eggshell			
Volume Solids	62% ± 3% (depends on colour)			
Typical Thickness	90-125 microns (3.6-5 mils) dry equivalent to 145-202 microns (5.8-8.1 mils) wet			
Theoretical Coverage	6.20 m ² /litre at 100 microns d.f.t and stated volume solids 249 sq.ft/US gallon at 4 mils d.f.t and stated volume solids			
Practical Coverage	Allow appropriate loss factors			
Method of Application	Airless Spray, Air Spray, Brush			
Drying Time	Overcoating Interval with recommended topcoats			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
25°C (77°F)	3 hours	16 hours	16 hours	5 days
40°C (104°F)	2 hours	8 hours	12 hours	4 days

REGULATORY DATA

Flash Point (Typical)	Part A 30°C (86°F); Part B 29°C (84°F); Mixed 29°C (84°F)		
Product Weight	1.45 kg/l (12.1 lb/gal)		
VOC	360 g/lt	Calculated	

See Product Characteristics section for further details

Protective Coatings

Epoxy

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 8504:2000.

Primed Surfaces

Intergard 966 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Intergard 966 must be applied within the overcoating intervals specified (consult the relevant product data sheet). Zinc primers should be intact, fully cured and free of zinc salts prior to overcoating.

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 the product.

Shop Primed Surfaces

Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501-1:2007) or SSPC-SP6.

If the shop primer shows extensive or widely scattered breakdown overall sweep blasting may be necessary. Apply a suitable primer to bare steel areas.

Concrete Surfaces

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. Priming should be carried out using Intergard 966 or Intergard 740, thinned 10-20% by volume with International GTA220 thinners.

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. 							
	It is recommended that Intergard 966 is allowed a 10 minute induction period after mixing, prior to commencing application.							
Mix Ratio	4 part(s) : 1 part(s) by volume							
Working Pot Life	25°C (77°F) 6 hours	40°C (104°F) 8 hours						
Airless Spray	Recommended	Tip Range 0.45-0.58 mm (18-23 thou) Total output fluid pressure at spray tip not less than 176 kg/cm ² (2503 p.s.i.)						
Air Spray (Pressure Pot)	Recommended	<table border="0"> <tr> <td>Gun</td> <td>DeVilbiss MBC or JGA</td> </tr> <tr> <td>Air Cap</td> <td>704 or 765</td> </tr> <tr> <td>Fluid Tip</td> <td>E</td> </tr> </table>	Gun	DeVilbiss MBC or JGA	Air Cap	704 or 765	Fluid Tip	E
Gun	DeVilbiss MBC or JGA							
Air Cap	704 or 765							
Fluid Tip	E							
Brush	Suitable	Typically 50-75 microns (2.0-3.0 mils) can be achieved						
Thinner	International GTA220							
Cleaner	International GTA822							
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA132 or 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.							
Clean Up	Clean all equipment immediately after use with International GTA822. 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.							

Epoxy

PRODUCT CHARACTERISTICS

Maximum film build in one coat is best attained by airless spray. Application by air spray may require a multiple cross spray pattern to attain maximum film build. Low or high temperatures may require specific application techniques to achieve required film build.

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. When applying Intergard 966 in confined spaces ensure adequate ventilation.

In common with all epoxies Intergard 966 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance. The actual rate of chalking will depend upon climatic conditions and will normally be limited to a thin surface layer. Chalking is only likely to reduce anti-corrosion properties when the chalked film can be removed, for example, by exposure to high UV together with intermittent exposure to fast moving water. Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Condensation occurring during or immediately after application may result in a matt finish and an inferior film. Premature exposure to ponding water will cause a colour change, especially in dark colours.

Intergard 966 is suitable for use as a protective system for concrete floors and walls subjected to light traffic and mild chemical attack.

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.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

Intergard 966 can be applied over an extremely wide range of priming systems which include:

- Intergard 251
- Intergard 269
- Interzinc 315
- Interzinc 42
- Interzinc 52
- Interzinc 78

Suitable topcoats are:

- Intergard 410
- Intergard 740
- Interthane 138
- Interthane 990

For other suitable primers/topcoats, consult International Protective Coatings.

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 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	16 litre	20 litre	4 litre	5 litre
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
		32.08 kg		3.96 kg	
	20 litre				
STORAGE	Shelf Life	12 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 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, 05/02/2015.

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

www.international-pc.com