

Intergard 966

Epoxy HB

PRODUCT DESCRIPTION

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

INTENDED USES

Suitable for use as part of a high performance coating system to provide an anticorrosive 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.

Meets EIL Specification 6-44-0004 F-6

PRACTICAL INFORMATION FOR INTERGARD 966

Colour Wide range
Gloss Level Egg-Shell - Matt
Volume Solids 64 ± 2 % (depends on colour)
Typical Thickness 100-125 microns (4-5 mils) dry equivalent to 162-202 microns (6.5-8.1 mils) wet
Theoretical Coverage 5.0 m²/litre at 125 microns d.f.t and stated volume solids
198.9 sq.ft/US gallon at 5 mils d.f.t and stated volume solids
Practical Coverage Allow appropriate loss factors.
Method of Application Airless spray, Brush, Roller, Air spray
Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with Recommended topcoats	
			<i>Min.</i>	<i>Max</i>
25° C (77°F)	3 hrs.	16 hrs.	16 hrs.	5 days
40° C (104°F)	2 hrs.	8 hrs.	12 hrs	4 days

REGULATORY DATA

Flash point	Base(Part A) 30°C (86°F)	C/A (Part B) 29°C (85°F)	Mixed 30°C (86°F)
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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 ISO8504:1992.

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).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½) ISO 8501-1:1988) or SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Intergard 966.

Shop Primed Steelwork

Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501-1:1988) or SSPC-SP6.

If the shop primer shows extensive or widely scattered breakdown overall sweep blasting may be necessary.

Zinc Primed Steelwork

Ensure that the surface of the primer is clean, dry and free from contamination and zinc salts before application of Intergard 966. Ensure zinc primers are fully cured before overcoating.

APPLICATION

Mixing	Material is supplied in two containers as a unit. Always mix a complete unit in the proportion 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 parts : 1 part by volume.
Working Pot Life	25° C(77°F) 40°C(104° F)
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/cm2 (2,500 p.s.i.)
Air Spray (Pressure Pot)	Recommended Gun DeVilbiss MBC or JGA Air Cap 704 or 765 Fluid Tip E
Brush	Suitable - small areas only Typically 50-75 microns (2-3 mils) can be achieved.
Roller	Not recommended
Thinner	International GTA220 Do not thin more than allowed by local environmental legislation
Cleaner	International GTA822

Work Stoppages- Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. 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 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

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. 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 maximum film build.

This product will not cure adequately below 5°C (41°F). For maximum performance 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.

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. All poured and precast concrete must also be sweep blasted (preferred) or acid etched to remove laitence. Priming should be undertaken with Intergard 740 or Intergard 966 thinned with International GTA220 thinners at approximately 10-20% by volume.

SYSTEMS COMPATABILITY

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

Intercure 200
Intercure 420
Interzinc 12 (mist coat or tie coat recommended)
Interzinc 22 (mist coat or tie coat recommended)
Intergard 251 Interzinc 42
Intergard 269 Interzinc 52
Interplate 11 Interzinc 72
Interzinc 315
Intergard 906

Suitable topcoats for Intergard 966 are :

Interfine 629HS Interthane 138
Intergard 410 Intergard 740
Interthane 990 Intergard 969

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 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 the 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	Intergard 966 Base	16 litres in a 20 litre container
		Intergard 966 Curing Agent	4 litres in a 5 litre container
For availability of other pack sizes contact International Protective Coatings.			
STORAGE	Shelf Life	12 months minimum at 25 °C (77° F). Subject to re-inspection	

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. 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 for 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 : October 2000