Intergard® 740

Epoxy

PRODUCT DESCRIPTION

A two component epoxy finish coat suitable for brush, roller and spray application.

INTENDED USES

As a tough, hard wearing finish for application over properly primed surfaces. Exhibits good abrasion resistance, and affords good protection against spills and splashes of a range of chemicals such as acids, alkalis, solvents, and salt solutions.

Suitable for use in a wide range of environments including offshore structures, petrochemical facilities, bridges, pulp and paper mills, and the power industry.

PRACTICAL INFORMATION FOR INTERGARD 740

Color	Wide range via the Chromascan® system
Gloss Level	High Gloss
Volume Solids	51% ± 3% (depends on color)
Typical Thickness	2 mils (50 microns) dry equivalent to 3.9 mils (98 microns) wet
Theoretical Coverage	409 sq.ft/US gallon at 2 mils d.f.t and stated volume solids 10.20 m²/liter at 50 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush, Roller

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
50°F (10°C)	12 hours	40 hours	40 hours	Extended[1]
59°F (15°C)	8 hours	30 hours	30 hours	Extended[1]
77°F (25°C)	3 hours	16 hours	16 hours	Extended[1]
104°F (40°C)	2 hours	11 hours	11 hours	Extended[1]

[1] See International Protective Coatings Definitions & Abbreviations

REGULATORY DATA

Flash Point	Part A 81°F (27°C); Part B 84°F (29°C); Mixed 82°F (28°C)	
Product Weight	11.2 lb/gal (1.34 kg/l)	
VOC	3.50 lb/gal (420 g/lt) 344 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)

See Product Characteristics section for further details

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 740 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Intergard 740 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. SSPC-SP6 or Sa2½ (ISO 8501-1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Intergard 740.

Concrete, Pre-cast Blockwork, etc.
Intergard 740 is suitable for application to concrete. For the first coat it is recommended that Intergard 740 is thinned 10-15% by International Thinners in order to provide good penetration with the concrete substrate and act as a primer/sealer coat.

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.

Plaster, Cement Render, Concrete etc.
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.

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.
(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 part(s) by volume

Working Pot Life

50°F (10°C)	59°F (15°C)	77°F (25°C)	104°F (40°C)
11 hours	10 hours	8 hours	2 hours

Airless Spray

Recommended

Tip Range 15-21 thou (0.38-0.53 mm)
Total output fluid pressure at spray tip not less than 2503 psi (176 kg/cm²)

Air Spray (Pressure Pot)

Recommended

Gun	DeVilbiss MBC or JGA
Air Cap	704 or 765
Fluid Tip	E

Air Spray (Conventional)

Recommended

Use suitable proprietary equipment.

Brush

Recommended

Typically 1.6 mils (40 microns) can be achieved

Roller

Recommended

Typically 1.6 mils (40 microns) can be achieved

Thinner

International GTA220 (or International GTA415)

Do not thin more than allowed by local environmental legislation

Cleaner

International GTA822 (or International GTA415)

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

PRODUCT CHARACTERISTICS

When applying Intergard 740 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

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

In common with all epoxy coatings Intergard 740 may chalk or discolor on exterior exposure. Rate of chalking will depend upon climatic conditions, will have no adverse effect upon anti-corrosive property and will be limited to a thin surface layer.

Condensation occurring during or immediately after application may result in a matte finish and an inferior film.

Premature exposure to ponding water will cause a color change, especially in dark colors.

Level of sheen and surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

Over-application of Intergard 740 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

For brush and roller application, and in some colors, two coats of Intergard 740 may be required to give uniform coverage.

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 color 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

The following primers are suitable for Intergard 740:

Intercure 200	Interplus 770
Intercure 420	Interseal 670HS
Intergard 251	Interzinc 42
Intergard 269	Interzinc 52
Intergard 475HS	Interzinc 315
InterH2O 401	Interzone 505
Interline 944	Interzone 954
Interplus 256	Interzone 1000
Interplus 356	

When Intergard 740 is used as a primer for concrete the following products are suitable topcoats:

Interfine 629HS	Interthane 990
Intergard 740	Interzone 505
Interline 850	Interzone 954
Interline 944	Interzone 1000
Interseal 670HS	

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

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 liter	16 liter	20 liter	4 liter	5 liter
	5 US gal	4 US gal	5 US gal	1 US gal	1 US gal
	For availability of other pack sizes contact International Protective Coatings				

SHIPPING WEIGHT	Unit Size	Part A	Part B
	20 liter	24.8 kg	4.2 kg
	5 US gal	56 lb	8.4 lb

STORAGE		
	Shelf Life	12 months minimum at 77°F (25°C). 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 law) any loss or damage arising out of the use of the product. 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 International Paint representative that this data sheet is current prior to using the product.

Issue date: 7/7/2009

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