

Interthane_® 870

Polyurethane

PRODUCT DESCRIPTION

A two component, high build, acrylic polyurethane finish giving excellent durability and long term recoatability.

INTENDED USES

Suitable for use in both new construction and as an industrial maintenance finish which can be used in a wide variety of environments including offshore structures, petrochemical facilities, bridges, pulp and paper mills, and in the power industry.

Particularly designed for use in areas where a high gloss is either not desired or where a semi-gloss is the preferred option.

Provides a versatile option where overcoating of intermediates in one coat is not possible using conventional high gloss polyurethane finishes.

PRACTICAL INFORMATION FOR INTERTHANE 870

Color Wide range via the Chromascan® system

Gloss Level Semi Gloss

Volume Solids 56% ± 3% (depends on color)

Typical Thickness 3-5 mils (75-125 microns) dry equivalent to 5.4-8.9 mils (134-223 microns)

wet

Theoretical Coverage 180 sq.ft/US gallon at 5 mils d.f.t and stated volume solids

4.50 m²/liter at 125 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

Touch Dry	Hard Dry	Minimum	Maximum
90 minutes	30 hours	30 hours	Extended ¹
75 minutes	16 hours	16 hours	Extended ¹
60 minutes	5 hours	5 hours	Extended ¹
45 minutes	2.5 hours	2.5 hours	Extended ¹
	90 minutes 75 minutes 60 minutes	90 minutes 30 hours 75 minutes 16 hours 60 minutes 5 hours	90 minutes 30 hours 30 hours 75 minutes 16 hours 16 hours 60 minutes 5 hours 5 hours

¹ See International Protective Coatings Definitions & Abbreviations

REGULATORY DATA Flash Point Part A 95°F (35°C); Part B 122°F (50°C); Mixed 95°F (35°C)

Product Weight 11.5 lb/gal (1.38 kg/l)

VOC 3.14 lb/gal (377 g/lt) EPA Method 24

280 g/kg EU Solvent Emissions Directive

(Council Directive 1999/13/EC)

See Product Characteristics section for further details





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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 ISO 8504:2000.

Primed Surfaces

Interthane 870 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Interthane 870 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 Interthane 870.

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 7 part(s): 1 part(s) by volume

Working Pot Life 41°F (5°C) 59°F (15°C) 77°F (25°C) 104°F (40°C)

7 hours 3.5 hours 2 hours 45 minutes

Airless Spray Recommended Tip Range 17-23 thou (0.43-0.58 mm)

Total output fluid pressure at spray tip not less than 2204 psi

(155 kg/cm²)

Air Spray Recommended Gun DeVilbiss MBC or JGA

Air Cap 704 or 765

Fluid Tip E

Air Spray Suitable Use suitable proprietary equipment.

(Conventional)

(Pressure Pot)

Brush Suitable Typically 2.0-3.0 mils (50-75 microns) can be achieved

Roller Suitable Typically 2.0-3.0 mils (50-75 microns) can be achieved

Thinner International GTA713 Do not thin more than allowed by local environmental

or International GTA733 legislation

(or International GTA056)

Cleaner International GTA713, International GTA733 or International GTA056

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

equipment with International GTA056. 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 GTA056. 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

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

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. Lower or high temperatures may require specific application techniques to achieve maximum film build.

If application in one coat using brush and roller is desired then the undercoat shade should be chosen to match the final coat shades. Dark colored and MIO undercoats will typically require 2 coats of Interthane 870.

When applying Interthane 870 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

Applicators should be aware that the ability to apply Interthane 870 in one coat will be affected by the temperature of the substrate. At higher steel temperatures, lower film builds and thinner coats are likely to be achieved.

This product must only be thinned using the recommended International thinners. The use of alternative thinners, particularly those containing alcohols, can severely inhibit the curing mechanism of the coating.

Do not apply at steel temperatures below 41°F (5°C)

When applying Interthane 870 in confined spaces, ensure adequate ventilation.

When overcoating after weathering, or aging, ensure the coating is fully cleaned to remove all surface contamination such as oil, grease, salt crystals and traffic fumes, before application of a further coat of Interthane 870.

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

Premature exposure to ponding water will cause color change, especially in dark colors and at low temperatures.

Absolute measured adhesion of topcoats to aged Interthane 870 is less than that to fresh material, however, it is adequate for the specified end use.

This product is not recommended for use in immersion conditions. When severe chemical or solvent splashing is likely to occur, contact International Protective Coatings for information regarding suitability.

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/intermediates are recommended for Interthane 870:

Intercure 200 Interplus 356
Intercure 200HS Interseal 670HS
Intercure 420 Interzinc 52
Intercure 420HS Interzinc 52HS
Intergard 251 Interzinc 315
Intergard 475HS Interzone 505
Interplus 256 Interzone 954

Interthane 870 is designed to be topcoated with itself.

For other suitable primer/intermediates, 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:

- · 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.

Warning: Contains isocyanate. Wear air-fed hood for spray application.

PACK SIZE	Unit Size	Part A		Part B				
		Vol	Pack	Vol	Pack			
	20 liter	17.5 liter	20 liter	2.5 liter	3.7 liter			
	5 US gal	4.38 US gal	5 US gal	0.63 US gal	1 US gal			
For availability of other pack sizes contact International Protective Coatings								
SHIPPING WEIGHT	Unit Size	Pa	rt A	Part B				
	20 liter	27 kg		3.1 kg				
	5 US gal	55.	.1 lb	6.4 lb				
STORAGE	Shelf Life	12 months m	inimum at 77°F	(25°C). Subject to	re-inspection thereafter. Store in dry,			
OTORAGE			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.

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