Interfine 878

Polysiloxane

International Protective Coatings

WORLD WIDE PRODUCT RANGE

Product Description

A high performance, two component, high solids finish which is free from isocyanates, offers compliance to current VOC legislation, and affords extended lifetime to first maintenance when utilised as part of a high performance anti-corrosive system.

Interfine 878 offers superior gloss and colour retention and provides significantly improved resistance to yellowing & chalking when compared to typical conventional topcoats including catalysed acrylic, and polyurethane finishes.

Intended Uses

Interfine 878 is a tough, hard wearing finish coat for application over properly primed surfaces, which exhibits good flexibility, abrasion resistance, and affords protection against spills and splashes of a range of chemicals such as acids, alkalis, solvents, and salt solutions. Suitable for application by spray and roller, in both factory new construction and site maintenance application situations, and is an ideal solution where legislation prevents the use of isocyanates, or restricts solvent emission levels.

For use in those market sectors where high standards of cosmetic appearance and aesthetics are a key requirement. These include high performance steel constructions such as sports stadia, bridges, offshore platforms, FPSO vessels, tank farms, chemical and petrochemical plants, pulp and paper mills, and the power industry, in addition to general industrial and commercial steelwork where aesthetics are important.

Practical Information for Interfine 878

Colour	Wide range available via Chromascan
Gloss Level	High gloss
Volume Solids	72%
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 69-104 microns (2.8-4.2 mils) wet
Theoretical Coverage	14.4 m^2/litre at 50 microns d.f.t and stated volume solids 577 sq.ft/US gallon at 2 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Air spray, Roller

Drying Time†

Temperature	Touch Dry†	Hard Dry†	Overcoating Interval with Interfine 878 *Minimum*	*Maximum*
5°C (41°F)	6 hours	8 hours	8 hours	Extended*
15°C (59°F)	4½ hours	6 hours	6 hours	Extended*
25°C (77°F)	3 hours	4 hours	4 hours	Extended*
40°C (104°F)	1½ hours	2½ hours	2½ hours	Extended*

* See International Protective Coatings Definitions & Abbreviations

† The drying times quoted have been determined at the quoted temperature and 50% relative humidity.

Note: Overcoating intervals for recommended primers and intermediates are dependent upon actual primer/intermediate used. Please see Systems Compatibility section.

Regulatory Data

Flash Point	Base (Part A) 34°C (93°F)	C/A (Part B) 55°C (131°F)	Mixed 35°C (95°F)
Product Weight	1.4 kg/litre	(11.7 lbs/gal)	
VOC	246 g/l	(2.05 lb/gal)	UK - PG6/23(92), Appendix 3
	2.05 lb/gal	(246 g/l)	USA - EPA Method 24

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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 8504:1992.

Primed Surfaces

Interfine 878 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Interfine 878 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 Interfine 878.

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

5 parts : 1 part by volume

Working Pot Life

5°C (41°F)	15°C (59°F)	25°C (77°F)	40°C (104°F)
3½ hours	2½ hours	2 hours	1½ hours

Airless Spray

Recommended

- Tip range 0.28-0.43 mm (11-17 thou)
- Total output fluid pressure at spray tip not less than 155 kg/cm^2 (2,200 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 25 - 50 microns (1-2 mils) can be achieved

Roller

Suitable

Typically 50-75 microns (2-3 mils) can be achieved

Thinner

International GTA007

Do not thin more than allowed by local environmental legislation.

Cleaner

International GTA007

Work Stoppages

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA007. 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 GTA007. 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

The technology utilised in Interfine 878 is covered by patent (US 6,281,321 and EP 0 941290).

Level of sheen and surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible. Best results in terms of gloss and appearance will always be obtained with conventional air spray application.

For brush and roller applications, and in some colours, two coats of Interfine 878 may be required to give uniform coverage, especially when applying over dark undercoats. Best practice is to use a colour compatible intermediate or anti-corrosive coating under the Interfine 878.

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

Pot life times must not be exceeded even though the material may be still liquid and appear useable. It is good working practice that application should commence with full unopened units of material. Due to the moisture sensitivity with partially filled units of the curing agent component, there is a danger of reaction with atmospheric moisture which could adversely affect the performance of the final coating film.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

When applying Interfine 878 in confined spaces ensure adequate ventilation.

Care must be taken when spray applying multiple coats of Interfine 878 to ensure that a continuous wet film is applied to ensure a satisfactory coalescence occurs. Failure to do so may downgrade appearance and performance.

Interfine 878 will cure satisfactorily at relative humidities between 40% and 85%. Curing will be slower at lower humidities and faster at higher humidities.

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

When overcoating after weathering, or ageing, ensure the coating is fully cleaned to remove all surface contamination such as oil, grease, and salt crystals, before application of a further coat of Interfine 878.

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

This product is not recommended for use in continuous immersion conditions.

Where prolonged chemical or solvent splashing is likely to occur contact International Protective Coatings for information regarding suitability.

Systems Compatibility

Interfine 878 can be applied over a limited range of intermediates.

Absolute maximum overcoating intervals with Interfine 878 are dependent upon the primer / intermediate. Relevant primer/intermediate product data sheet and Interfine 878 Recommended Working Procedures should be consulted prior to use.

Suitable intermediates are:

- Intercure 200
- Intercure 200HS
- Intergard 475HS
- Interplus 356
- Interseal 670HS
- Interzone 505
- Interzone 954

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 sections of the International Protective Coatings data manual:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Practical & Theoretical Coverage
- Interfine 878 Recommended Working Procedures

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	20 litre unit	Interfine 878 Base Interfine 878 Curing Agent	16.67 litres in a 20 litre container 3.33 litres in a 5 litre container
	5 gallon unit	Interfine 878 Base Interfine 878 Curing Agent	4.17 gallons in a 5 gallon container 0.83 gallon in a 1 gallon container
	For availability of other pack sizes contact International Protective Coatings		
Shipping Weight	U.N. Shipping No.	1263	
	20 litre unit	25.4 kg (56.0 lb) Base (Part A) 3.7 kg (8.2 lb) Curing Agent (Part B)	
	5 gallon unit	24.8 kg (54.6 lb) Base (Part A) 3.5 kg (7.6 lb) Curing Agent (Part B)	
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.	

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. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. 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: 22/01/04

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International Protective Coatings

Worldwide Availability

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