

Isocyanate-Free Polysiloxane

PRODUCT DESCRIPTION

A fast-drying, high performance, high solids isocyanate free and tin free hybrid polysiloxane finish. Interfine 2080HS combines both acrylic and epoxy resin technology to deliver improved performance over epoxy polysiloxanes with added flexibility and offers excellent gloss and colour retention when compared to conventional acrylic and polyurethane finishes. Being isocyanate-free and tin free can help to support the sustainability and HSE objectives of the contract chain - Interfine 2080HS does not produce di-isocyanates during onsite hot-work.

INTENDED USES

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 2080HS

Colour	Limited range			
Gloss Level	Gloss			
Volume Solids	78% ± 2%			
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 64-96 microns (2.6-3.8 mils) wet			
Theoretical Coverage	13 m ² /litre at 60 microns d.f.t and stated volume solids 521 sq.ft/US gallon at 2.4 mils d.f.t and stated volume solids			
Practical Coverage	Allow appropriate loss factors			
Method of Application	Air spray, Airless Spray, Roller, Brush			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
5°C (41°F)	7 hours	24 hours	24 hours	28 days
15°C (59°F)	4 hours	12 hours	12 hours	28 days
25°C (77°F)	3 hours	6 hours	6 hours	28 days
40°C (104°F)	2.5 hours	4 hours	4 hours	28 days

REGULATORY DATA

Flash Point (Typical)	Part A 35°C (95°F); Part B 61°C (142°F); Mixed 42°C (108°F)		
Product Weight	1.41 kg/l (11.8 lb/gal)		
VOC	2.06 lb/gal (247 g/lit)	EPA Method 24	
	166 g/kg	EU Solvent Emissions Directive (Council Directive 2010/75/EU)	

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

Interfine 2080HS should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interfine 2080HS 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 8501-1:2007) or SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Interfine 2080HS.

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	5°C (41°F) 5 hours	15°C (59°F) 4 hours	25°C (77°F) 3 hours	40°C (104°F) 2 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 (2204 p.s.i.)		
Air Spray (Pressure Pot)	Suitable	Gun	DeVilbiss MBC or JGA	
		Air Cap	704 or 765	
		Fluid Tip	E	
Brush	Suitable - Touch up and small areas only	Typically 25-50 microns (1.0-2.0 mils) can be achieved		
Roller	Suitable	Typically 25-50 microns (1.0-2.0 mils) can be achieved		
Thinner	International GTA007	Thin up to maximum 3% by weight. 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

Apply in good climatic conditions. The temperature of the surface to be coated must be at least 3°C (5°F) above the dew point.

When applying Interfine 2080HS in confined spaces ensure adequate ventilation.

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods whenever possible. Best results in terms of gloss and appearance will usually be obtained by airless spray application.

For brush and roller application, and in some colours, two coats of Interfine 2080HS may be required to give uniform coverage, especially when applying Interfine 2080HS over dark undercoats, and when using certain lead free bright colours such as yellows and oranges. Best practice is to use a colour compatible intermediate or anticorrosive coating under the Interfine 2080HS.

To prevent excessive overspray when applying by airless spray, ensure correct gun tip size and output pressure are used.

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.

Interfine 2080HS 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.

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

When overcoating after weathering or ageing, 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 Interfine 2080HS.

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.

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

The following primers/intermediates are recommended for Interfine 2080HS:

Intergard 251HS	Intergard 263
Intergard 269	Intergard 475HS
Intergard 7500	Interplus 356
Intershield 300	Interzone 954

Maximum overcoating intervals for recommended primers may differ from those on the individual primer data sheets. For further advice and confirmation on overcoating windows or other primer compatibility, please consult International Paint.

Interfine 2080HS should only be topcoated with itself, and should never be overcoated with another product.

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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 Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

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 AkzoNobel 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 AkzoNobel.

SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B
		20 litre	25.9 kg

STORAGE	Shelf Life
	12 months minimum at 25°C (77°F). Subject to re-inspection at higher temperatures and/or longer duration; please contact AkzoNobel for further confirmation. 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.

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