

Intertherm 875

High Temperature Silicone Acrylic



Product Description

A single component, intermediate temperature finish based on temperature resistant silicone and acrylic resins with thermally stable pigmentation.

Intended Uses

For use in a wide range of industrial environments including petrochemical plants, oil refineries, offshore structures, chemical plants and power stations. Suitable for areas subject to intermediate service temperature that require a coloured finish.

A heat resistant finish coat for application over properly primed steelwork. For use at both new construction and as a maintenance coating.

Suitable for steelwork operating at temperatures up to 260°C (500°F). Does not require heating between coats.

Practical Information for Intertherm 875

Colour	Colour Range Available
Gloss Level	Gloss
Volume Solids	39%
Typical Thickness	25-40 microns (1.0-1.6 mils) dry equivalent to 64-103 microns (2.6-4.1 mils) wet
Theoretical Coverage	15.6 m ² /litre at 25 microns d.f.t and stated volume solids 626 sq.ft/US gallon at 1 mil d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Air spray, Brush, Roller

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with Intertherm 875 with Self	
			<i>Minimum</i>	<i>Maximum</i>
10°C (50°F)	60 minutes	3 hours	4 hours	Extended*
15°C (59°F)	45 minutes	2 hours	3 hours	Extended*
25°C (77°F)	30 minutes	90 minutes	2 hours	Extended*
40°C (104°F)	10 minutes	45 minutes	1 hour	Extended*

* See International Protective Coatings Definitions & Abbreviations

Regulatory Data

Flash Point	24°C (75°F)
Product Weight	1.07 kg/l (8.93 lb/gal)
VOC	570 g/l UK - PG6/23(92), Appendix 3 4.7 lb/gal (562 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.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:1988) or SSPC-SP10. If oxidation has occurred between blasting and application of Intertherm 875, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

Intertherm 875 can be applied over approved anti-corrosive primers. The primer surface should be dry and free from all contamination, and Intertherm 875 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

In the case of zinc primers, where necessary, remove weld spatter, smooth weld seams and sharp edges and blast clean welds and damaged areas to Sa2½ (ISO 8501-1:1988) or SSPC-SP10. The shop primer or other primer surface should be dry and free of all contamination (oil, grease, salt etc) and overcoated with Intertherm 875 within the overcoating intervals specified for the primer (consult the relevant product data sheet).

Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501-1:1988) or SSPC-SP10.

Ensure the zinc primer has fully cured and is clean, dry and free from zinc salts prior to overcoating.

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

Application

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
Mix Ratio	Not applicable	
Working Pot Life	Not applicable	
Airless Spray	Not recommended	
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	Suitable - Small areas only	Typically 25 microns (1 mil) can be achieved.
Roller	Suitable - Small areas only	Typically 25 microns (1 mil) can be achieved.
Thinner	International GTA007 (or GTA013)	Do not thin more than allowed by local environmental legislation.
Cleaner	International GTA007	
Work Stoppages	Thoroughly flush all equipment with International GTA007. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered prior to use.	
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

For optimum corrosion protection at temperatures up to 260°C (500°F) Intertherm 875 should be applied over an inorganic zinc silicate primer. The preferred system for use with inorganic zinc silicate is to apply a mist coat followed by a full coat of Intertherm 875 at 40 microns (1.6 mils) dry film thickness. Application of two full coats can sometimes result in pinholes in the topcoat.

When overcoating weathered zinc silicate primers the surface should be clean, free from contamination, and the presence of zinc corrosion products.

Zinc epoxy primers will also provide satisfactory anti-corrosive protection for in-service temperatures up to 150°C (300°F).

This material is air drying and is suitable for application both in the fabrication yard and on-site where stoving facilities are not available.

Over-application can lead to blistering at high temperatures.

Some minor colour and gloss changes will be visible upon high heat exposure.

Note that some yellowing will occur with prolonged exposure of the white finish to temperatures of 260°C (500°F).

Maximum continuous dry temperature resistance for Intertherm 875 is 260°C (500°F).

Intertherm 875 can be applied to substrates with surface temperatures at time of application up to 40°C (104°F).

Systems Compatibility

This specialist material is not normally topcoated, and is only compatible with a very limited number of primers:

Suitable primers are:

Interzinc 12	Up to 260°C (500°F) continuous dry temperature
Interzinc 22	Up to 260°C (500°F) continuous dry temperature
Interzinc 42	Up to 150°C (300°F) continuous dry temperature
Interzinc 52	Up to 150°C (300°F) continuous dry temperature
Interzinc 315	Up to 150°C (300°F) continuous dry temperature

For other suitable primers, 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 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	Intertherm 875	20 litres in a 20 litre container
	5 gallon unit	Intertherm 875	5 gallons in a 5 gallon container
For availability of other pack sizes contact International Protective Coatings			
Shipping Weight	U.N. Shipping No. 1263		
	20 litre unit	23.4 kg	(51.6 lb)
	5 gallon unit	24.3 kg	(53.7 lb)
Storage	Shelf Life	24 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: 10/09/2003

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International Protective Coatings

Worldwide Availability

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