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	Limited colour range available
Gloss Level	Gloss
Volume Solids	39%
Typical Thickness	25-40 microns (1-1.6 mils) dry equivalent to 64-103 microns (2.6-4.1 mils) wet
Theoretical Coverage	15.60 m²/litre at 25 microns d.f.t and stated volume solids 626 sq.ft/US gallon at 1 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Air Spray, Brush, Roller

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
10°C (50°F)	60 minutes	3 hours	4 hours	Extended[1]
15°C (59°F)	45 minutes	2 hours	3 hours	Extended[1]
25°C (77°F)	30 minutes	90 minutes	2 hours	Extended[1]
40°C (104°F)	10 minutes	45 minutes	1 hour	Extended[1]

[1] See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical)	24°C (75°F)	
Product Weight	1.07 kg/l (8.9 lb/gal)	
VOC	4.68 lb/gal (562 g/lt) 534 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 2010/75/EU)

Coating hazard marker GB 30981.2-S-Pb≤1000-NC Qualified for GB 30981.2-2025

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 8504:2019.

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

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) 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 8501-1:2007) 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 8501-1:2007) 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	
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 (1.0 mils) can be achieved
Roller	Suitable - small areas only	Typically 25 microns (1.0 mils) can be achieved
Thinner	International GTA007 (International 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 260ºC (500°F).

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

Note: VOC values quoted are based on maximum possible for the product taking into account variations due to colour differences 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

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 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.

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	Vol	Pack
20 litre	20 litre	20 litre
5 US gal	5 US gal	5 US gal

For availability of other pack sizes, contact AkzoNobel.

SHIPPING WEIGHT (TYPICAL)

Unit Size	
20 litre	23.4 kg
5 US gal	53.6 lb

STORAGE

Shelf Life	24 months minimum at 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 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.

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Issue date: 27/05/2026

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