

PRODUCT DESCRIPTION

A two component, oleoresinous primer, pigmented with metallic zinc dust and graphite to comply with the requirements of Shell DEP 40.48.00.30 Gen Chapter VI (e).

INTENDED USES

As an anti-corrosive industrial maintenance primer for steel at temperatures between 150°C (302°F) and 450°C (842°F).

Suitable for use as an industrial maintenance coating on correctly prepared abrasive blast cleaned, hand and power tool cleaned steel on all high temperature structures such as flare stacks, exhausts, chimneys and pipework.

PRACTICAL INFORMATION FOR INTERTHERM 890

Colour	Dark Grey
Gloss Level	Matt
Volume Solids	57%
Typical Thickness	50 microns (2 mils) dry equivalent to 88 microns (3.5 mils) wet
Theoretical Coverage	11.40 m ² /litre at 50 microns d.f.t and stated volume solids 457 sq.ft/US gallon at 2 mils 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 recommended topcoats	
			Minimum	Maximum
5°C (41°F)	24 hours	72 hours ²	48 hours	Extended ¹
15°C (59°F)	16 hours	48 hours ²	36 hours	Extended ¹
25°C (77°F)	12 hours	36 hours ²	24 hours	Extended ¹
40°C (104°F)	6 hours	24 hours ²	24 hours	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

² This product will not fully harden until heated.

REGULATORY DATA

Flash Point	44°C (111°F) 44°C (111°F)
Product Weight	2.30 kg/l (19.2 lb/gal)
VOC	133 g/kg EU Solvent Emissions Directive (Council Directive 1999/13/EC)
See Product Characteristics section for further details	



Ecotech is an initiative by International Protective Coatings a world leader in coating technology to promote the use of environmentally sensitive products across the globe.

SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by fresh water washing.

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

Abrasive Blast Cleaning

For optimum performance: Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Intertherm 890, 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.

However, Intertherm 890 may also be applied to a surface abrasive blast cleaned to a minimum Sa1 (ISO 8501-1:2007) C or D grade rusting, or SSPC SP7.

Hand or Power Tool Preparation

The product is designed for application to surfaces prepared to St2 (ISO 8501-1:2007) or SSPC SP2. When using power tools care should be taken to avoid surface polishing. The product may also be applied to surfaces which have been sweep blasted to Sa2. On poor surfaces brush application will assist performance.

APPLICATION

Mixing	Intertherm 890 is supplied in 2 parts, a liquid Binder base component (Part A) and a Powder component (Part B). The Powder (Part B) should be slowly added to the liquid Binder (Part A) whilst stirring with a mechanical agitator. DO NOT ADD LIQUID TO POWDER. Material should be filtered prior to application and should be constantly agitated in the pot during spraying. Once the unit has been mixed it should be used within the working pot life specified.			
Mix Ratio	4.05 part(s) : 1.00 part(s) by volume			
Working Pot Life	5°C (41°F) 48 hours	15°C (59°F) 24 hours	25°C (77°F) 18 hours	40°C (104°F) 12 hours
Airless Spray	Not recommended			
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
Air Spray (Conventional)	Suitable	Use suitable proprietary equipment		
Brush	Recommended			
Roller	Recommended			
Thinner	International GTA004	Do not thin more than allowed by local environmental legislation		
Cleaner	International GTA004			
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA004. 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 GTA004. 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.			

**PRODUCT
CHARACTERISTICS**

Intertherm 890 is designed for use for on-site maintenance painting and will not become hard until the operating temperature is achieved. Even after heat curing this product does not achieve a high film strength, making it unsuitable for factory application even where stoving ovens can be utilised.

Airless spray is not recommended as an application method because of the difficulty of controlling thickness to 50 microns (2 mils) and the likelihood of 'packing out' of the powder component which can lead to equipment failure.

Over-application will cause Intertherm 890 to stay soft for long periods and will potentially cause delamination when heated to the required operating temperature.

Due to the presence of zinc dust in this material, Intertherm 890 is not suitable for exposure to acid or alkaline environments.

In order to ensure good anti-corrosive performance, it is important to achieve a minimum system dry film thickness of 50 microns (2 mils) over hand prepared steel.

Over-application of Intertherm 890 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

The maximum DFT which should be applied before heating is 75 microns (3 mils) otherwise blistering will occur. Two or more coats cannot be applied without heating between coats.

Maximum continuous dry temperature resistance for Intertherm 890 is 450°C (842°F).

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.

**SYSTEMS
COMPATIBILITY**

Intertherm 890 is only recommended for application to correctly prepared steel substrate.

All topcoating systems should be applied as thin coats (15 microns : 0.5 mils DFT) to prevent blistering.

Up to 250°C (482°F) Intertherm 875

Up to 315°C (599°F) Intertherm 891

Up to 540°C (1004°F) Intertherm 50

For other suitable topcoats, 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 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	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	5 litre	4.01 litre	5 litre	0.99 litre	5 litre
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT	Unit Size	Part A		Part B	
	5 litre	4.9 kg		7.5 kg	
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.			

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 International Paint representative that this data sheet is current prior to using the product.

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