

## Interline<sub>®</sub> 850 **Epoxy Phenolic**

Overegating Interval with

### PRODUCT DESCRIPTION

A two component, chemically resistant, high solids, high build epoxy phenolic tank and pipe lining.

INTENDED USES

To provide corrosion protection for the internals of steel storage tanks and pipes containing a range of products, including crude oil, unleaded gasoline blends, MTBE, jet fuels, caustic solutions. potable water and a selected range of aromatic and aliphatic solvents.

NSF Certification is for tanks of 1500 gallons (5679 litres) or greater and pipes 48 inches (122 cm) or greater in diameter.



Certified to NSF/ANSI 61

#### PRACTICAL INFORMATION FOR **INTERLINE 850**

Colour	White, Grey		
Gloss Level	Not applicable		
Volume Solids	76%		
Typical Thickness	100-150 microns (4-6 mils) dry equivalent to 132-197 microns (5.3-7.9 mils) wet		
Theoretical Coverage	6.10 m²/litre at 125 microns d.f.t and stated volume solids 244 sq.ft/US gallon at 5 mils d.f.t and stated volume solids		
Practical Coverage	Allow appropriate loss factors		
Method of Application	Airless Spray, Air Spray, Brush, Roller		

**Drying Time** 

			recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
10°C (50°F)	9 hours	24 hours	24 hours	30 days¹	
15°C (59°F)	8 hours	20 hours	20 hours	30 days¹	
25°C (77°F)	5 hours	8 hours	8 hours	30 days¹	
40°C (104°F)	3 hours	5 hours	5 hours	21 days¹	

<sup>1</sup> The values quoted relate to use within an enclosed tank environment. For situations where UV exposure between coats is likely, maximum overcoating intervals will be shorter. Contact International Protective Coatings for more details.

**REGULATORY DATA** Flash Point (Typical) Part A 42°C (108°F); Part B 54°C (129°F); Mixed 43°C (109°F)

> **Product Weight** voc

1.57 kg/l (13.1 lb/gal) 1.87 lb/gal (225 g/lt)

EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)

See Product Characteristics section for further details

143 g/kg

**Protective Coatings** 



# **KInternational**

# Interline<sub>®</sub> 850

#### **Epoxy Phenolic** SURFACE All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all PREPARATION surfaces should be assessed and treated in accordance with ISO 8504:2000. Where necessary, remove weld spatter and smooth weld seams and sharp edges. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning. Abrasive Blast Cleaning This product must only be applied to surfaces prepared by abrasive blast cleaning to Sa21/2 (ISO 8501-1:2007) or SSPC SP10. A sharp, angular surface profile of 50-75 microns (2-3 mils) is recommended. Interline 850 must be applied before oxidation of the steel occurs. If oxidation does occur the entire oxidised area should be reblasted to the standard specified above. Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner. Where local VOC regulations allow, surfaces may be primed with Interline 850 (thinned 10-15% GTA420) to 40 microns (1.5 mils) dry film thickness before oxidation occurs. Alternatively, the blast standard can be maintained by use of dehumidification. Areas of breakdown, damage, weld seams etc., should be prepared to the specified standard (e.g. Sa21/2 (ISO 8501-1:2007) or SSPC-SP10 or power tool cleaned to Pt3 (JSRA SPSS:1984) or SSPC-SP11). APPLICATION Mixing Interline 850 must be applied in accordance with the detailed International Protective Coatings Working Procedures for the application of Tank Linings. 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. Agitate Base (Part A) with a power agitator. (1)Combine entire contents of Curing Agent (Part B) with Base (2)(Part A) and mix thoroughly with power agitator. Mix Ratio 4 part(s) : 1 part(s) by volume 40°C (104°F) Working Pot Life 10°C (50°F) 15°C (59°F) 25°C (77°F) 3 hours 2 hours 1 hour 30 minutes Airless Sprav Recommended Tip Range 0.53-0.68 mm (21-27 thou) Total output fluid pressure at spray tip not less than 176 kg/cm<sup>2</sup> (2503 p.s.i.) DeVilbiss MBC or JGA Air Sprav Recommended Gun (Pressure Pot) Air Cap 704 or 765 Fluid Tip E Recommended - Small Brush Typically 50-75 microns (2.0-3.0 mils) can be areas only achieved Recommended - Small Roller Typically 50-75 microns (2.0-3.0 mils) can be areas only achieved Thinner International GTA220 Do not thin more than allowed by local (or International GTA415) environmental legislation Cleaner International GTA853 or International GTA415 Do not allow material to remain in hoses, gun or spray equipment. Thoroughly Work Stoppages flush all equipment with International GTA853. 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 all equipment immediately after use with International GTA853. It is good Clean Up 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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## Interline<sub>®</sub> 850 Epoxy Phenolic

### PRODUCT CHARACTERISTICS

The detailed Interline 850 Application Guidelines should be consulted prior to use.

Interline 850 is typically specified as a two coat system at 125 microns (5 mils) per coat to give a total coating system dry film thickness of 250 microns (10 mils). Exact specification for total dry film thickness will be dependent upon service end use requirements. Consult International Protective Coatings for specific advice regarding tank lining applications.

When used as a primer coat applied at 40 microns (1.5 mils) dry film thickness Interline 850 can hold a blast for up to 28 days in the semi-protected environment of a tank interior. If moisture is present on the surface, oxidation will occur and reblasting will be required. As an alternative, a full coat may be applied, provided the overcoating intervals are adhered to and all surfaces are correctly cleaned and prepared prior to overcoating with Interline 850.

For potable water service, consult International Protective Coatings with regards to permissible thinning levels.

At temperatures below 15°C (59°F), it is recommended that Interline 850 is allowed a 15 minute induction period after mixing, prior to commencing application.

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Application by air spray may require a multiple cross spray pattern to attain optimum film build. The use of other methods, e.g. brush or roller, may require more than one coat and are suggested only for small areas and initial stripe coating.

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

For general use, it is not recomended to apply Interline 850 at steel temperatures below 10°C (50°F). However for potable water storage only, Interline 850 may be applied at steel temperatures of 5°C (41°F) and above. Consult International Protective Coatings for specific cure schedules.

When applying Interline 850 in confined spaces ensure adequate ventilation.

For multi-coat applications, exposure to low temperatures during or immediately after application may result in incomplete cure and surface contamination that could jeopardise subsequent intercoat adhesion.

This product severely yellows when exposed to sunlight and should not be used on tank exteriors where colour stability is important.

After the last coat has cured hard, the coating system dry film thickness should be measured using a suitable nondestructive magnetic gauge to verify the average total applied system thickness. The coating system should be free of all pinholes or other holidays. The cured film should be essentially free of runs, sags, drips, inclusions or other defects. All deficiencies and defects should be corrected. The repaired areas shall be retested and allowed to cure as specified before placing the finished lining into service. Consult International Protective Coatings Interline 850 Application Guidelines for proper repair procedures.

#### Return to Service

The following minimum cure times are recommended for Interline 850

Temperature	Schedule 1	Schedule 2		
10°C (50°F)	7 days	14 days		
15°C (59°F)	4 days	10 days		
25°C (77°F)	2 days	6 days		
35°C (95°F)	36 hours	4 days		
40°C (104°F)	24 hours	3 days		

Schedule 1 refers to the minimum cure time at the specified substrate temperature prior to conducting a tank hydrotest or immersion in purely aliphatic petroleum products (e.g diesel or kerosene, however not gasoline or gasoline/alcohol blends).

Schedule 2 refers to the minimum cure time at the specified substrate temperature prior to immersion in all other chemicals as per the chemical resistance list.

These cure schedules do not take into consideration specific curing requirements for third party approvals, such as for potable water use.

For storage of cargoes above ambient temperatures, consult International Protective Coatings for further details.

This material is recommended for the storage of aviation fuel. It is also suitable for storage of unleaded gasoline. Interline 850 is not suitable for exposure to acidic conditions.

This product has the following specification approvals:

US Military Specification MIL-PRF-4556F (Buff and White colours only).

- DEF STAN 80-97 Annexe G for the lining of bulk aviation fuel tanks.
- · Spanish Norma INTA 164402-A.

• NSF certification is for tanks greater than 1500 gallons, pipes 48 inches in diameter or greater and for valves 4 inches in diameter or greater.

Norwegian National Institute of Public Health for Use in Potable Water Tanks on Offshore Installations.

Meets requirements of FDA CFR21-175.300 for direct dry food contact and liquid food contact according to condition
of use E and food types I, II, III, IV-A, IV-B, V, VI-A, VI-B and VII.

Certified to AS/NZS 4020:2005 for tanks greater than 40,000 mm<sup>2</sup>/litre. Minimum capacity 6 litres, minimum internal
pipe diameter 10 cm.

Consult International Protective Coatings for specific approved specifications.

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

Generally, where VOC regulations allow, Interline 850 can be used as a self-priming system. Interline 982 can also be used in certain situations. Consult International Protective Coatings for specific recommendations.

For other suitable primers/topcoats, consult International Protective Coatings

Consult International Protective Coatings to confirm that Interline 850 is suitable for contact with the product to be stored.

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## Interline<sub>®</sub> 850 Epoxy Phenolic

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
- Interline 850 Application Guidelines

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. All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety and Environmental standards, regulations and legislation.

Proper ventilation must be provided during application and afterwards during drying (Refer to product datasheets for typical drying times) to keep solvent concentrations within safe limits and prevent fires and explosions. Forced extraction will be required in confined spaces. Ventilation and/or respiratory personal protective equipment (airfed hoods or appropriate cartridge masks) must be provided during application and drying. Take precautions to avoid skin and eye contact (overalls, gloves, goggles, masks, barrier cream, etc).

Before use, obtain, read and then follow the advice given on the Material Safety Data Sheets (Parts A and B if two-pack) and the Health and Safety section of the Coatings Applications Procedures for this product.

In the event that 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.

The detailed safety measures are dependent on application methods and the work environment. If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product and consult International Protective Coatings.

PACK SIZE	Unit Size	Part / Vol	A Pack	Part B Pack Vol Pack			
	20 litre	16 litre	20 litre	4 litre	5 litre		
	5 US gal	4 US gal	5 US gal	1 US gal	1 US gal		
For availability of other pack sizes, contact International Protective Coatings.							
SHIPPING WEIGHT (TYPICAL)	Unit Size	Pa	art A	Part B			
	20 litre	2	9 kg	4.3 kg			
	5 US gal	60	).2 lb	8.6 lb			
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 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.

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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