# Enviroline<sub>®</sub> 376F-30LT



### **Epoxy Novolac**

PRODUCT DESCRIPTION

Enviroline 376F-30LT is a low temperature cure version of Enviroline 376F-30 specifically designed to cure at temperatures down to -7°C (20°F) and provide resistance to a wide range of chemicals and solvents.

#### **INTENDED USES**

To provide corrosion protection, with cure down to -7°C (20°F), for the internals of steel storage tanks, vessels, spools and pipes for a range of products, including (but not limited to); crude oil, refined oil products (including unleaded gasoline blends and solvents) and biofuels.

Enviroline 376F-30LT is also suitable as an external coating for buried pipes.

PRACTICAL Colour
INFORMATION FOR
ENVIROLINE 376F-30LT Gloss Level

Colour Limited colour range available

oss Level Not applicable

Volume Solids 100%

Typical Thickness 500-1000 microns (20-40 mils) dry equivalent to

500-1000 microns (20-40 mils) wet

Theoretical Coverage 1.33 m²/litre at 750 microns d.f.t and stated volume solids

53 sq.ft/US gallon at 30 mils d.f.t and stated volume solids

Practical Coverage Allow appropriate loss factors

Method of Application Plural Component Airless Spray

**Drying Time** 

Overcoating Interval with recommended topcoats

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
-7°C (20°F)	5 hours	8 hours¹	8 hours	28 days²
0°C (32°F)	2 hours	4 hours¹	4 hours	28 days²
10°C (50°F)	1 hour	2 hours1	2 hours	28 days²

<sup>&</sup>lt;sup>1</sup> Sufficient coating film strength has developed to permit the handling and movement of coated steelwork. A Shore D hardness reading of 75-80 is a recommended guideline to indicate suitability for return to service.

### **REGULATORY DATA**

Flash Point (Typical) Part A 84°C; Part B 104°C

Product Weight 1.49 kg/l (12.4 lb/gal)

voc 0.25 lb/gal (31 g/lt) EPA Method 24

88 g/kg EU Solvent Emissions Directive

(Council Directive 2010/75/EU)

See Product Characteristics section for further details

<sup>&</sup>lt;sup>2</sup> If the maximum overcoating interval is exceeded it will be necessary to thoroughly abrade the surface of the lining with coarse emery paper, followed by solvent wash.

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SURFACE PREPARATION All surfaces to be coated should be clean, dry and free from contamination. Prior to application all surfaces should be assessed and treated in accordance with ISO 8504:2000

Where necessary, remove weld spatter and where required smooth weld seams and sharp edges.

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

#### Steel Substrates

Best performance will always be achieved when Enviroline 376F-30LT is applied to surfaces prepared by abrasive blast cleaning to Sa3 (ISO 8501-1:2007) or SSPC-SP5. Where Enviroline 376F-30LT is not to be used in high heat and/or aggressive service, preparation to an absolute minimum of Sa2½ (ISO 8501-1:2007) or SSPC-SP10 at time of coating application may be acceptable. Contact International Protective Coatings for further information.

A sharp, angular surface profile of 75-125 microns (3-5 mils) is recommended.

Enviroline 376F-30LT 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.

The preferred method of holding the blast standard is by dehumidification. Alternatively, an approved holding primer may be used.

#### **Concrete Substrates**

Refer to International Protective Coatings' Concrete Surface Preparation Guidelines for further information.

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Mixing	Material is supplied in two containers as a unit. Complete units should be
	stored mixed and applied in accordance with the Enviroline Application

stored, mixed and applied in accordance with the Enviroline Application

Guidelines.

Mix Ratio 2 part(s): 1 part(s) by volume

Working Pot Life 35°C (95°F)

10 minutes

Plural Component Airless Spray Recommended Refer to Enviroline Application Guidelines for

more details.

Airless Spray Not suitable

Brush Suitable Can be used for the touch-up of small areas or

for stripe coating of welds and edges.

**Thinner** Not normally required Refer to Enviroline Application Guidelines for

specific advice.

Cleaner Enviroline 71C (or International GTA203)

Work Stoppages Do not allow material to remain in hoses, guns or spray equipment.

Thoroughly flush all equipment with Enviroline 71C or International GTA203. 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 Enviroline 71C or

International GTA203. 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

The detailed Enviroline Application Guidelines should be consulted prior to use.

This datasheet provides general guidance on the use of Enviroline 376F-30LT. Specific project requirements will be dependent upon the service end use and operating conditions of the tank or vessel. Always consult International Protective Coatings to confirm that Enviroline 376F-30LT is suitable for contact with the product to be stored.

The detailed project coating specification provided by International Protective Coatings must be followed at all times.

Stripe coating is an essential part of good working practice and as such should form part of any lining specification.

For heavily pitted or porous steel, spray apply approximately 50% of the required film thickness and follow immediately with a short nap roller or squeegee to work material into the bottom of pitted areas.

For plural component application, viscosity of the Part A and Part B varies. For best results, heat Part A side to maximum of 54°C (130°F) and heat Part B side to a maximum of 41°C (105°F).

Use the following chart for preferred temperature conditions. These conditions plus adequate ventilation must be maintained throughout the curing cycle.

	Substrate Temperature	Air Temperature
Preferred	-1 to 18°C (30-65°F)	-1 to 18°C (30-65°F)
Minimum	-7°C (20°F)	-7°C (20°F)

For low temperature applications, typical full cure times are;

-7°C (20°F) 7 days 0°C (30°F) 3 days 10°C (50°F) 1 day

After the coating system has cured hard, the dry film thickness should be measured using a suitable non-destructive magnetic gauge to verify the minimum 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.

Maximum continuous dry temperature resistance for Enviroline 376F-30LT is 177°C (350°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

Enviroline 376F-30LT is designed as a single coat system. It must only be overcoated with itself should re-coats or touch-up be required.

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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
- · Enviroline 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 curing (refer to product datasheets for typical curing times) to ensure 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 curing. 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.

Warning: This product contains liquid epoxies and modified polyamines and may cause skin sensitisation if not used correctly.

PACK SIZE	Unit Size	Part /	4	Part B		
		Vol	Pack	Vol	Pack	
	4 US gal	2.67 US gal	5 US gal	1.33 US gal	2 US gal	
	18 litre	12 litre	20 litre	6 litre	10 litre	
	For availability of otl	her pack sizes,	contact Akz	oNobel.		

SHIPPING WEIGHT	Unit Size	Part A	Part B	
(TYPICAL)	18 litre 4 US gal	18.48 kg 36.6 lb	9.63 kg 16.7 lb	
	i oo gai	00.0 16	10.7 16	

STORAGE Shelf Life 12 months minimum at 25°C (77°F) in original, unopened containers. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	
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#### **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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