

Epoxy

PRODUCT DESCRIPTION

A general purpose zinc phosphate epoxy primer providing improved anticorrosive protection.

INTENDED USES

For use as a primer to ensure good anticorrosive protection in both new construction and maintenance & repair situations.

Suitable for use on a wide variety of structures in the onshore oil and gas, chemical and petrochemical, mining and power industries as well as bridges and infrastructure.

PRACTICAL INFORMATION FOR EIGHTY8HUNDRED 8818

Colour	Grey, Red and Buff
Gloss Level	Semi Gloss
Volume Solids	83%
Typical Thickness	75-200 microns dft equivalent to 90-241 microns wft
Theoretical Coverage	10.9 m ² /litre at 75 microns dft and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Brush, Roller

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Min	Max
10°C	6 hrs	8 hrs	8 hrs	Extended ¹
25°C	2 hrs	5 hrs	5 hrs	Extended ¹
40°C	50 mins	2 hrs	2 hrs	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical)	Part A 25°C Part B 27°C Mixed 27°C
Product Weight	1.6 kg/litre
VOC	240 g/lit EPA Method 24

See Product Characteristics section for further details.

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SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface 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 8504:2000.

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-SP6. If oxidation has occurred between blasting and application of Eighty8Hundred 8818, 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.

Eighty8Hundred 8818 is suitable for application to blast cleaned surfaces which were initially to the above standard but have been allowed to deteriorate under good shop conditions for up to 7-10 days. The surface may deteriorate to Sa2 standard but must be free from loose powdery deposits.

APPLICATION

Mixing	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.		
	(1) Agitate Base (Part A) with a power agitator.		
	(2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.		
Mix Ratio	4 part(s) : 1 part(s) by volume		
Working Pot Life	10°C	25°C	40°C
	2 hours	1 hour	½ hour
Airless Spray	Recommended	Tip Range 0.48-0.66 mm (19-26 thou) Total output fluid pressure at spray tip not less than 176 kg/cm ² (2503 p.s.i.)	
Brush	Suitable - small areas only	Typically 75 - 100 microns (3.0-4.0 mils) can be achieved	
Roller	Suitable - small areas only	Typically 75 - 100 microns (3.0-4.0 mils) can be achieved	
Thinner	International GTA220	Do not thin more than allowed by local environmental legislation	
Cleaner	International GTA822		
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. 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 International GTA822. 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

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 maximum film build. Low or high temperatures may require specific application techniques to achieve maximum film build.

When applying Eighty8Hundred 8818 by brush or roller, it may be necessary to apply multiple coats to achieve the required film build.

Surface temperature must always be a minimum of 3°C above dew point.

When applying Eighty8Hundred 8818 in confined spaces ensure adequate ventilation.

Eighty8Hundred 8818 is not designed for continuous water immersion.

Condensation occurring during or immediately after application may result in a matt finish and an inferior film.

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods whenever possible.

In common with all epoxies Eighty8Hundred 8818 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

In C1 and C2 corrosive environments (ISO 12944) it is possible to repair weld seams and small damaged areas via hand or power tool cleaning. Consult International Protective Coatings for more information.

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

Eighty8Hundred 8818 is designed for application over correctly prepared steel.

The following topcoats are recommended:

- Eighty8Hundred 8860
- Eighty8Hundred 8862

Eighty8Hundred 8818 should only be used in schemes with other Eighty8Hundred products.

See relevant product data sheet for details.

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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

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	Vol	Pack
	20 litre	16 litre	20 litre	4 litre	5 litre	
For availability of other pack sizes, contact International Protective Coatings						
SHIPPING WEIGHT (TYPICAL)	Unit Size		Part A		Part B	
	U.N. Shipping No. 1263		28.8 kg		3.8 kg	
STORAGE	Shelf Life	18 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.

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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