

Epoxy

PRODUCT DESCRIPTION

An epoxy finish providing an easily cleaned gloss appearance with chemical spill resistance.

INTENDED USES

For use as a finish coat to improve appearance 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 8862

Colour	Wide Range Via Chromascan system
Gloss Level	High Gloss
Volume Solids	51% ± 3% (depends on colour)
Typical Thickness	50 microns dft equivalent to 98 microns wft
Theoretical Coverage	10.2 m ² /litre at 50 microns dft and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Air spray, Brush, Roller
Drying Time	

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Min	Max
25°C	3 hrs	16 hrs	16 hrs	Extended ¹
40°C	2 hrs	11 hrs	11 hrs	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical)	Part A 27°C Part B 29°C Mixed 28°C
Product Weight	1.34 kg/litre
VOC	420 g/lt EPA Method 24

See Product Characteristics section for further details.

Epoxy

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 8504:2000.

Primed Surfaces

Eighty8Hundred 8862 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Eighty8Hundred 8862 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Eighty8Hundred 8862.

Concrete, Pre-Cast Blockwork etc.

Eighty8Hundred 8862 is suitable for application to concrete. For the first coat it is recommended that Eighty8Hundred 8862 is thinned 10-15% by International Thinners in order to provide good penetration of the concrete substrate and act as a primer / sealer coat.

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also be sweep blasted (preferred) or acid etched to remove laitance.

Plaster, Cement Render, Concrete etc.

Surface should be clean, dry and free from contamination. Remove old, loose or flaking paint. Fill and sand minor defects.

Damp patches, oil staining, bitumen bleed, nicotine deposits, efflorescence and rust discolouration must either be treated at source, or better, the cause of such stains/defects removed. Existing mould, algae and other growth must be killed before commencing work. Domestic strength bleach diluted 1:4 with water or a proprietary fungicide solution should be used. Two treatments may be necessary, after which the area must be washed down and scrubbed to remove residues. Ideally, to prevent future infestations the conditions which support growth should be identified and cure sought.

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.							
	<ol style="list-style-type: none"> (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	25°C	40°C						
	8 hours	2 hours						
Airless Spray	Recommended	Tip Range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 176 kg/cm ² (2503 p.s.i.)						
Air Spray (Pressure Pot)	Recommended	<table border="0"> <tr> <td>Gun</td> <td>DeVilbiss MBC or JGA</td> </tr> <tr> <td>Air Cap</td> <td>704 or 765</td> </tr> <tr> <td>Fluid Tip</td> <td>E</td> </tr> </table>	Gun	DeVilbiss MBC or JGA	Air Cap	704 or 765	Fluid Tip	E
Gun	DeVilbiss MBC or JGA							
Air Cap	704 or 765							
Fluid Tip	E							
Air Spray (Conventional)	Recommended	Use suitable proprietary equipment						
Brush	Recommended	Typically 40 microns (1.6 mils) can be achieved						
Roller	Recommended	Typically 40 microns (1.6 mils) can be achieved						
Thinner	International GTA007 (or International GTA415)	Do not thin more than allowed by local environmental legislation.						
Cleaner	International GTA822 (or International GTA415)							
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	<p>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.</p> <p>All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.</p>							

Epoxy

PRODUCT CHARACTERISTICS

When applying Eighty8Hundred 8862 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

This product will not cure adequately below 5°C. For maximum performance ambient curing temperatures should be above 10°C.

In common with all epoxy coatings Eighty8Hundred 8862 may chalk or discolour on exterior exposure. Rate of chalking will depend upon climatic conditions, will have no adverse effect upon anti-corrosive property and will be limited to a thin surface layer.

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

Premature exposure to ponding water will cause a colour change, especially in dark colours.

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

Over-application of Eighty8Hundred 8862 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

For brush and roller application, and in some colours, two coats of Eighty8Hundred 8862 may be required to give uniform coverage.

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

The following primers/intermediates are approved for use with Eighty8Hundred 8862:

- Eighty8Hundred 8808
- Eighty8Hundred 8818
- Eighty8Hundred 8840
- Eighty8Hundred 8841
- Eighty8Hundred 8845

Eighty8Hundred 8862 should only be used in schemes with other Eighty8Hundred products.

See relevant product data sheet for details.

Epoxy

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	
	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
	20 litre	24.8 kg	4.2 kg

STORAGE	Shelf Life
	12 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.

Copyright © AkzoNobel, 12/03/2018.

All trademarks mentioned in this publication are owned by, or licensed to, the AkzoNobel group of companies.

www.international-pc.com