Eighty8Hundred® 8860

Polyurethane

PRODUCT DESCRIPTION

An acrylic polyurethane finish providing durability and long term recoatability.

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 8860

Colour	Wide Range via Chromascan system
Gloss Level	Gloss
Volume Solids	57% ± 3% (depends on colour)
Typical Thickness	50 microns dft equivalent to 88 microns wft
Theoretical Coverage	11.40 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

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Min*	*Max*
25ºC	1½ hrs	6 hrs	6 hrs	Extended[1]
40ºC	1 hr	3 hrs	3 hrs	Extended[1]

[1] See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical)	Part A 34ºC Part B 49ºC Mixed 35ºC
Product Weight	1.2 kg/litre
VOC	420 g/lt EPA Method 24

See Product Characteristics section for further details.

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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 8860 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Eighty8Hundred 8860 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 8860.

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

6 part(s) : 1 part(s) by volume

Working Pot Life

25°C	40°C
4 hours	¾ hours

Airless Spray

Recommended — Tip Range 0.33-0.45 mm (13-18 thou)
Total output fluid pressure at spray tip not less than 155 kg/cm² (2204 p.s.i.)

Air Spray (Pressure Pot)

Recommended

Gun	DeVilbiss MBC or JGA
Air Cap	704 or 765
Fluid Tip	E

Air Spray (Conventional)

Recommended — Use suitable proprietary equipment

Brush

Suitable — Typically 40-50 microns (1.6-2.0 mils) can be achieved

Roller

Suitable — Typically 40-50 microns (1.6-2.0 mils) can be achieved

Thinner

International GTA713 (or International GTA733 or GTA056) — Do not thin more than allowed by local environmental legislation.

Cleaner

International GTA713 (or International GTA733 or GTA056)

Work Stoppages

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA713. 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 GTA713. 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

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

Best results in terms of gloss and appearance will always be obtained by conventional air spray application.

For brush and roller application, and in some colours, two coats of Eighty8Hundred 8860 may be required to give uniform coverage, especially when applying Eighty8Hundred 8860 over dark undercoats, and when using certain lead free bright colours such as yellows and oranges. Best practice is to use a colour compatible intermediate or anticorrosive coating under the Eighty8Hundred 8860.

When overcoating after weathering or ageing, ensure the coating is fully cleaned to remove all surface contamination such as oil, grease, salt crystals and traffic fumes, before application of a further coat of Eighty8Hundred 8860.

Absolute measured adhesion of topcoats to aged Eighty8Hundred 8860 is less than that to fresh material, however, it is adequate for the specified end use.

This product must only be thinned using the recommended International thinners. The use of alternative thinners, particularly those containing alcohols, can severely affect the curing mechanism of the coating.

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

When applying Eighty8Hundred 8860 in confined spaces ensure adequate ventilation.

Eighty8Hundred 8860 is capable of curing at temperatures below 0°C. However, this product should not be applied at temperatures below 0°C where there is a possibility of ice formation on the substrate. Condensation occurring during or immediately after application may result in a matt finish and an inferior film. Premature exposure to ponding water will cause colour change, especially in dark colours and at low temperatures.

This product is not recommended for use in immersion conditions. When severe chemical or solvent splashing is likely to occur contact International Protective Coatings for information regarding suitability.

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 8860:

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

Eighty8Hundred 8860 is designed only to be topcoated with itself.

Eighty8Hundred 8860 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
- Eighty8Hundred 8860 Metallic Finish Working Procedures

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.

Warning: Contains isocyanate. Wear air-fed hood for spray application.

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	20 litre	17.14 litre	20 litre	2.86 litre	3.7 litre
	For availability of other pack sizes, contact International Protective Coatings				

SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B
	20 litre	23.1 kg	3.5 kg

STORAGE	Shelf Life	24 months (Part A) & 12 months (Part B) minimum at 25°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

Important Note

www.international-pc.com