

Epoxy

PRODUCT DESCRIPTION

A high performance, chemically cured, epoxy primer/intermediate for steel.

INTENDED USES

Designed for use in aggressive industrial environments and the process industries and offers excellent low temperature cure characteristics and resistance to acids, bases and solvents.

Especially formulated for use as a fast recoat system for quick turn around for piling repair or in fabrication shops doing work for industries such as pulp and paper, water and waste water, chemical processing, petrochemical, power and cogeneration, etc.

PRACTICAL INFORMATION FOR DEVRAN 261QC

Colour	White, Black, Grey			
Gloss Level	Semi-gloss			
Volume Solids	70% ± 2%			
Typical Thickness	100-150 microns (4-6 mils) dry equivalent to 143-214 microns (5.7-8.6 mils) wet			
Theoretical Coverage	5.60 m ² /litre at 125 microns d.f.t and stated volume solids 225 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, Roller, Air Spray, Brush			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
0°C (32°F)	*1	15 hours	4 hours	10 days ²
5°C (41°F)	*1	6 hours	3 hours	6 days ²
25°C (77°F)	*1	3 hours	3 hours	4 days ²

¹ Not applicable

² Overcoating intervals will be reduced where certain topcoats are used. See Product Characteristics section for further details.

REGULATORY DATA

Flash Point (Typical) Part A 27°C (81°F); Part B 27°C (81°F); Mixed 27°C (81°F)

Product Weight 1.42 kg/l (11.8 lb/gal)

VOC 2.23 lb/gal (268 g/lit) EPA Method 24

See Product Characteristics section for further details

Epoxy

SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mortar spatter, mill scale, and rust.

New Surfaces

Steel:

Abrasive blast to minimum SSPC-SP10 or ISO8501-1:2007 Sa2½. The blast profile should be jagged rather than “peened” and between 1.5 to 2.5 mils (38-62 microns). After blasting, vacuum or blow off all abrasive dust and ensure surface remains clean before painting.

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	2 part(s) : 1 part(s) by volume	
Working Pot Life	0°C (32°F)	5°C (41°F)
	1 hour	1 hour
Airless Spray	Recommended	Tip Range 0.53-0.63 mm (21-25 thou) Total output fluid pressure at spray tip not less than 211 kg/cm ² (3000 p.s.i.) See Product Characteristics section for further details
Thinner	T-5 Thinner	See Product Characteristics section for further details
Cleaner	T-10 Thinner	
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with T-10 Thinner. 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 T-10 Thinner. 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 material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

Epoxy

PRODUCT CHARACTERISTICS

Advantages:

- Excellent low temperature cure even down to -18°C (0°F)
- Fast recoat time

Thinning is not normally required or desired; however, at lower temperatures, small amounts (5% or less by volume) of T-5 Thinner can be added depending on local VOC and air quality regulations.

For airless spray application: Ideally, fluid hoses should not be less than 3/8" ID and not longer than 50 feet to obtain optimum results. Longer hose length may require an increase in pump capacity, pressure, and/or thinning.

In common with all epoxies Devran 261QC will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Devran 261QC may yellow during application and cure if exposed to the combustion by-products of improperly vented fossil fuel burning heaters.

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

Where Devran 261QC is to be overcoated with Devthane 378 or 379 finish coats, the following overcoating intervals will apply;

	Minimum	Maximum
0°C (32°F)	4 hours	1 day
5°C (41°F)	3 hours	1 day
25°C (77°F)	2 hours	1 day

Where Devran 261QC is to be overcoated with Devthane 389, 359 and 349QC, the following overcoating intervals will apply;

	Minimum	Maximum
0°C (32°F)	4 hours	7 days
5°C (41°F)	3 hours	4 days
25°C (77°F)	2 hours	2 days

Devran 261QC may be tinted with industrial colourants; contact International Paint for further information. Add colourants only to the base portion and mix thoroughly before adding the converter portion.

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 are recommended for Devran 261QC:

Cathacoat 302H	Cathacoat 302HA
Cathacoat 302HB	Cathacoat 304L
Cathacoat 304V	

The following topcoats are recommended:

Devthane 349QC	Devthane 359
Devthane 359H	Devthane 378
Devthane 379	Devthane 389

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
	3 US gal	2 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	Part A		Part B	
		Vol		Pack	
	3 US gal	27.9 lb		13.9 lb	
STORAGE	Shelf Life	24 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 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.

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