

Epoxy

PRODUCT DESCRIPTION

Devran 223 is a rust inhibitive primer for interior or exterior steel surfaces. It is an excellent holding primer with superior aged recoatability.

INTENDED USES

Provides excellent adhesion and corrosion resistance for metal substrates such as steel structural members, hollow metal doors & frames, cabinetry, machinery, equipment, piping and tanks in all industrial environments.

Also an excellent prime coat in the hard service areas of public and private institutional, educational, and commercial buildings, transportation equipment.

PRACTICAL INFORMATION FOR DEVRAN 223

Colour	Light Grey
Gloss Level	Matt
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

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
5°C (41°F)	*1	60 hours	8 hours	12 months ²
10°C (50°F)	*1	10 hours	3 hours	12 months ²
20°C (68°F)	*1	6 hours	2 hours	12 months ²
25°C (77°F)	*1	5 hours	1 hour	12 months ²

¹ Not applicable

² When overcoating with Devthane urethanes, the maximum overcoating interval is 90 days.

REGULATORY DATA

Flash Point (Typical)	Part A 27°C (81°F); Part B 27°C (81°F); Mixed 27°C (81°F)	
Product Weight	1.63 kg/l (13.6 lb/gal)	
VOC	1.81 lb/gal (217 g/l)	EPA Method 24

See Product Characteristics section for further details

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SURFACE PREPARATION

All surfaces must be sound, dry, clean, and free of oil, grease, dirt, loose and flaking paint and other foreign substances.

New Surfaces:

Steel

Best results are obtained over a surface abrasive blasted to commercial blast cleanliness (SSPC-SP10) or ISO 8501-1:2007 Sa2½. Performance over hand or power tool cleaned surfaces is dependent on the degree of cleaning.

Previously Painted Surfaces

Old coatings should be tested for lifting. If lifting occurs, remove the coating. Otherwise, scuff sand glossy areas and aged epoxy coatings. Clean aged epoxy or urethane coatings with Devprep 88 Cleaner or other suitable cleaner followed by thorough rinsing. Remove cracked and peeling paint. Prime bare areas with appropriate primer.

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.			
	<ul style="list-style-type: none"> (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Initiator (Part B) with Base (Part A) and mix thoroughly with power agitator. 			
	Allow the mixed material to stand 15 minutes before use.			
Mix Ratio	1 part(s) : 1 part(s) by volume			
Working Pot Life	5°C (41°F)	10°C (50°F)	20°C (68°F)	25°C (77°F)
	14 hours	14 hours	12 hours	12 hours
Airless Spray	Recommended	Tip Range 0.48-0.63 mm (19-25 thou) Adjust pressure as needed		
Brush	Suitable			
Roller	Suitable			
Thinner	Not normally required	See Product Characteristics section for further details		
Cleaner	T-10 Thinner	#4267 Low VOC Cleaning Thinner		
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with T-10 Thinner (outside of SCAQMD) or #4267 solvent (inside SCAQMD). 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 (outside of SCAQMD) or #4267 solvent (inside SCAQMD). 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.			

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PRODUCT CHARACTERISTICS

Advantages:

- Excellent aged recoatability
- Easily applied by brush, roller or spray
- Convenient, light grey colour – easy to overcoat
- Compliant in the SCAQMD through Averaging Provisions

At extreme environmental conditions, small amounts (10% or less) of T-10 Thinner can be added to the mixed components depending on local VOC and air quality regulations.

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 223:

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

The following topcoats are recommended for Devran 223:

Bar-Rust 235	Devflex 4206QD
Devflex 4208QD	Devflex 4212HP
Devflex 4216HP	Devran 223
Devran 224HS	Devthane 349QC
Devthane 359	Devthane 359H
Devthane 378	Devthane 378H
Devthane 379	Devthane 379H
Devthane 389	

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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
	1 US gal	1 US gal	1 US gal	1 US gal	1 US gal
	5 US gal	5 US gal	5 US gal	5 US gal	5 US gal
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	1 US gal	16 lb		13.7 lb	
	5 US gal	80.1 lb		74.7 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.

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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