

Water Borne Epoxy

PRODUCT DESCRIPTION A high performance, chemically cured, rust inhibitive water borne epoxy primer for interior or exterior steel, galvanized metal or aluminum surfaces.

INTENDED USES Also used over concrete, masonry, glazed brick or ceramic tile. Features excellent adhesion, corrosion resistance, and good resistance to splash, spillage or fumes of a wide range of chemicals.

May be top coated with epoxy, urethane, alkyd, or latex coatings.

PRACTICAL INFORMATION FOR DEVRAN 203

Color	Light gray
Gloss Level	Matte
Volume Solids	45%± 2%
Typical Thickness	3-4 mils (75-100 microns) dry equivalent to 6.7-8.9 mils (167-222 microns) wet
Theoretical Coverage	205 sq.ft/US gallon at 3.5 mils d.f.t and stated volume solids 5.10 m ² /liter at 88 microns 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
77°F (25°C)	*	8 hours	4 hours	14 days

REGULATORY DATA **Flash Point (Typical)** Part A 214°F (101°C); Part B 214°F (101°C); Mixed 214°F (101°C)

Product Weight 11.4 lb/gal (1.37 kg/l)

VOC 91 g/lit (0.75 lb/US gal) calculated

See Product Characteristics section for further details

Water Borne 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

Best results are obtained over a surface abrasive blasted to a commercial blast cleanliness in accordance with SSPC-SP6 or ISO8501-1:2007 Sa2. Performance over hand or power tool cleaned surfaces is dependent on the degree of cleaning. Prime with this product. If rust staining occurs, apply a second coat of this product.

Galvanized Steel:

Solvent clean as per SSPC-SP-1 or clean with Devprep 88 or other suitable cleaner followed by thorough water rinsing. Apply a test patch of the coating system specified. Allow product(s) to dry and cure at least one week before testing adhesion per ASTM D 3359. If adhesion is poor, brush blast then prime with this product.

Aluminum:

Remove oils and dirt by solvent cleaning or with Devprep 88 or other suitable cleaner followed by a thorough water rinsing and then prime with this product.

Concrete and Masonry:

Cure at least 30 days before painting. pH must be 10.0 or lower. Roughen slick poured or pre-cast concrete by acid etching or sand sweeping. Follow acid manufacturer's application and safety instructions. Rinse thoroughly and allow to dry. Remove loose aggregate. Prime with this product.

Previously Painted Surfaces:

The waterborne components of this product generally allow use over most old coatings. Old coatings should be tested for lifting. If they lift, remove them. Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Dull glossy areas by light sanding. Remove sanding dust. Remove loose paint. Prime bare areas with primer specified under New Surfaces.

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 Initiator (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	77°F (25°C) 3 hours	
Airless Spray	Recommended	Use a 19 thou (0.48mm) tip size and adjust pressure as needed.
Brush	Suitable	
Roller	Suitable	
Thinner	Do not thin	
Cleaner	Warm soapy water	
Work Stoppages	Do not allow material to remain in hoses, guns or spray equipment. Thoroughly flush all equipment with clean water.	
Clean Up	Clean all equipment immediately after use with warm, soapy water. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

Water Borne Epoxy

PRODUCT CHARACTERISTICS

Advantages:

- Excellent adhesion
- Excellent corrosion resistance
- Light gray colour permits good finish coat hiding
- Excellent recoatability with all types of finishes
- Low odour and a high flash point
- Low VOC
- Easy application by brush, roller or spray
- Fast dry

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 color and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

The following primers are recommended for Devran 203:

Cathacoat 302	Cathacoat 302H
Cathacoat 304L	Cathacoat 304V

The following topcoats are recommended for Devran 203:

Devran 201H	Bar-Rust 235
Bar-Rust 236	Devthane 349QC
Devthane 359	Devthane 378
Devthane 379	Devthane 389
Tru-Glaze-WB 4406	Tru-Glaze-WB 4408
Tru-Glaze-WB 4426	Tru-Glaze-WB 4428

Water Borne 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
	1 US gal	0.8 US gal	1 US gal	0.2 US gal	1 US quart
	5 US gal	4 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	
	1 US gal	9 lb		3.1 lb	
	5 US gal	44.8 lb		11.2 lb	
STORAGE	Shelf Life	12 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

Disclaimer

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, 2/5/2015.

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

www.international-pc.com