Devran® 201H

Epoxy

PRODUCT DESCRIPTION

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

INTENDED USES

An excellent holding primer with superior aged recoatability. Also may be used on concrete and masonry.

Provides excellent adhesion and corrosion resistance for metal substrates such as steel structural members, machinery, equipment, piping and tanks in all industrial environments. May be used for both interior and exterior applications in chemical, fertilizer & power plants, petroleum refineries, pulp and paper mills, water and sewage treatment plants and mining operations.

Also for use as an excellent prime coat in the hard service areas public and private institutional, educational, and commercial buildings.

Suitable for water immersion when topcoated with an appropriate finish coat.

PRACTICAL INFORMATION FOR DEVRAN 201H

Color	Light gray
Gloss Level	Matte
Volume Solids	58%± 2%
Typical Thickness	2-3 mils (50-75 microns) dry equivalent to 3.4-5.2 mils (86-129 microns) wet
Theoretical Coverage	369 sq.ft/US gallon at 2.5 mils d.f.t and stated volume solids 9.20 m²/liter at 63 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

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
32°F (0°C)	*	60 hours	8 hours	Extended[1]
50°F (10°C)	*	10 hours	3 hours	Extended[1]
68°F (20°C)	*	6 hours	1 hour	Extended[1]
77°F (25°C)	*	5 hours	1 hour	Extended[1]

[1] See International Protective Coatings' Definitions and Abbreviations. The extended recoat time is with itself or other epoxy finish. See Product Characteristics section for further details.
* not applicable

REGULATORY DATA

Flash Point (Typical)	Part A 82°F (28°C); Part B 77°F (25°C); Mixed 81°F (27°C)	
Product Weight	12.0 lb/gal (1.44 kg/l)	
VOC	2.72 lb/gal (327 g/lt)	EPA Method 24

See Product Characteristics section for further details

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SURFACE PREPARATION

All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, curing compounds, 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.

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.

Galvanized Steel:
Allow to weather a minimum of six months prior to coating. Solvent clean as per SSPC-SP-1 or clean with Devprep 88 or other suitable cleaner followed by thorough water rinsing. When weathering is not possible or the surface has been treated with chromates or silicates, first clean by the method intended to be used on the job and 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.

Previously Painted Surfaces:
If the old paint is more than 25% failed by rusting, peeling, or flaking, it must be removed and treated as in New Surfaces. If less than 25% has failed, remove failed coatings back to a firm edge, clean and spot-prime with this product. Scuff sand glossy areas and aged epoxy coatings.

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	9 part(s) : 1 part(s) by volume	
Working Pot Life	68°F (20°C)	77°F (25°C)
	12 hours	12 hours
Airless Spray	Recommended	Tip Range 19-25 thou (0.48-0.63 mm) Adjust pressure as needed
Brush	Suitable	
Roller	Suitable	
Thinner	Not normally required	See Product Characteristics section for further details
Cleaner	International GTA610	

Work Stoppages

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA610. 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 GTA610. 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 adhesion
- Excellent holding primer
- Excellent corrosion resistance
- Excellent aged recoatability
- Easily applied by brush, roller, or spray
- Convenient, light gray color making it easy to overcoat
- Formulated without lead, chromate, or mercury containing materials
- Ideal tie-coat over inorganic zincs
- Versatile – for use on most substrates under many different types of topcoats
- Suitable for water immersion when topcoated with an appropriate finish coat

Compliant with OTC VOC regulations

Meets MPI category #101

Where Devran 201H is to be overcoated with Devthane 359, 359H, 349QC or 389 finish coats, the following maximum overcoating intervals will apply;

	Maximum
32ºF (0ºC)	14 days
50ºF (10ºC)	14 days
68ºF (20ºC)	14 days
77ºF (25ºC)	14 days

Where Devran 201H is to be overcoated with Devthane 378 or 379 finish coats, the following maximum overcoating intervals will apply;

	Maximum
32ºF (0ºC)	5 days
50ºF (10ºC)	5 days
68ºF (20ºC)	5 days
77ºF (25ºC)	5 days

For compliance to VOC regulations, thin as follows:

In TBAC exempt areas: Thinning is not normally required or desired; however, at extreme environmental conditions, small amounts (10% or less by volume) of the TBAC Thinner, T-0 Thinner or other solvent in compliance with local VOC regulations can be added.

In TBAC non-exempt areas: Thinning is not normally required or desired; however, at extreme environmental conditions, small amounts (5% or less by volume) of International GTA610 can be added 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 color and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

The following primers are recommended for Devran 201H:

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

The following topcoats are recommended for Devran 201H:

Bar-Rust 235	Bar-Rust 236
Devthane 349QC	Devthane 359
Devthane 379	Tru-Glaze-WB 4426
Tru-Glaze-WB 4428	

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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 Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

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 AkzoNobel for further advice.

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	1 US gal	0.9 US gal	1 US gal	0.1 US gal	1 US quart
	5 US gal	4.5 US gal	6 US gal	0.5 US gal	1 US gal
	For availability of other pack sizes, contact AkzoNobel.				

SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B
	1 US gal	11.8 lb	1.3 lb
	5 US gal	54.9 lb	6.2 lb

STORAGE	Shelf Life	24 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.

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