

## Polyurethane

**PRODUCT DESCRIPTION** A high performance, low VOC, two-component chemically-cured aliphatic urethane gloss finish.

**INTENDED USES** For use on properly prepared and primed steel, concrete or steel floors, masonry, drywall, plaster, metal, concrete block, galvanized, aluminum, poured concrete and glazed brick. Ideal for use on exterior or interior structural steel, piping, metal buildings, control cabinetry, conveyors, pumps, storage tank exteriors, motors, machinery, and transportation vehicles.

Can also be used in the hard service areas of food processing plants, dairies, schools, restaurants, hospitals, correctional facilities, factories, stadiums, arenas, and amusement parks.

## PRACTICAL INFORMATION FOR DEVTHANE 379H

<b>Color</b>	White, custom and ready-mix colors
<b>Gloss Level</b>	Gloss
<b>Volume Solids</b>	69%± 2%
<b>Typical Thickness</b>	2-3 mils (50-75 microns) dry equivalent to 2.9-4.4 mils (72-109 microns) wet
<b>Theoretical Coverage</b>	439 sq.ft/US gallon at 2.5 mils d.f.t and stated volume solids 11 m <sup>2</sup> /liter at 63 microns d.f.t and stated volume solids
<b>Practical Coverage</b>	Allow appropriate loss factors
<b>Method of Application</b>	Airless Spray, Roller, Air Spray, Brush

### Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating interval with self	
			Minimum	Maximum
41°F (5°C)	*1	32 hours	13 hours	2 weeks
59°F (15°C)	*1	24 hours	10 hours	2 weeks
77°F (25°C)	*1	16 hours	6 hours	2 weeks

\*1 \* not applicable

**REGULATORY DATA** **Flash Point (Typical)** Part A 72°F (22°C); Part B 124°F (51°C); Mixed 81°F (27°C)

**Product Weight** 11.2 lb/gal (1.34 kg/l)

**VOC** 0.36 lb/gal (44 g/l) EPA Method 24

See Product Characteristics section for further details

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### 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. Please see Systems Compatibility section for approved primers. To ensure optimum appearance, any primer or undercoat should be smooth and free of any surface defects such as runs, dry spray or heavy orange peel.

#### New Surfaces:

##### Steel

Apply over surfaces which have been suitably prepared and primed. Consult the relevant primer datasheet for advice on surface preparation requirements. Prime using: Devran 203, Devran 223, Bar-Rust 231, Bar-Rust 231 LV, Bar-Rust 233H, Bar-Rust 233H LV, Bar-Rust 235V or Tru-Glaze-WB 4030

##### Galvanized Steel and Aluminum

Remove dirt, grease, oil or other surface contamination by solvent cleaning or with Devprep 88 cleaner or other suitable cleaner, followed by a thorough water rinsing. Prime using: Devran 203 or Tru-Glaze-WB 4030. Galvanized substrates must be test patched for adhesion prior to use, due to the high variability of surface treatments.

##### Concrete Block

Remove loose aggregate and repair major voids. Fill with: Bar-Rust 231, Bar-Rust 231 LV, Bar-Rust 235V, Bar-Rust 233H, Bar-Rust 233H LV, or Tru-Glaze-WB 4015.

##### Concrete Floors, Poured Concrete

Cure at least 30 days. pH must be 10.0 or lower before painting. Acid etch or abrasive blast slick, glazed concrete or concrete with laitance. Prime using: Bar-Rust 231, Bar-Rust 231 LV, Bar-Rust 233H, Bar-Rust 233H LV, Bar-Rust 235V, Tru-Glaze-WB 4030 or Pre-Prime 167

##### Drywall:

Prime with a premium acrylic latex vapor barrier primer sealer.

##### Previously Painted Surfaces:

Poorly adhering old coatings should be removed. Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Dull glossy areas by light sanding. Remove all debris. Prime bare areas with primer specified under New Surfaces.

##### Fibreglass

Solvent wipe, scuff sand and solvent wipe again. Prime using: Bar-Rust 233H or Bar-Rust 233H LV

### APPLICATION

<b>Mixing</b>	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.	
<b>Mix Ratio</b>	4 part(s) : 1 part(s) by volume		
<b>Working Pot Life</b>	41°F (5°C)	59°F (15°C)	77°F (25°C)
	3.5 hours	3 hours	2.5 hours
<b>Airless Spray</b>	Recommended	Tip Range 11-17 thou (0.27-0.43 mm) See Product Characteristics section for further details	
<b>Air Spray (Conventional)</b>	Recommended	See Product Characteristics section for further details	
<b>Brush</b>	Suitable		
<b>Roller</b>	Suitable		
<b>Thinner</b>	If necessary, use T-9 Thinner See Product Characteristics section for further details		
<b>Cleaner</b>	T-9 Thinner		
<b>Work Stoppages</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with T-9 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.		
<b>Clean Up</b>	Clean all equipment immediately after use with T-9 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.		

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### PRODUCT CHARACTERISTICS

#### Advantages:

- Excellent gloss and color retention
- Excellent abrasion and chemical resistance
- Easily applied by brush, roller or spray
- Wide color selection
- Excellent resistance to marring, chipping, and scratching
- Contains ultraviolet light absorber

Cure Acceleration: Urethane catalyst 070A0000 may be used to accelerate cure at or below 40°F (5°C). The addition of one or two ounces per gallon will decrease the dry hard time approximately one-third to one-half respectively at 40°F (5°C). The pot life will be reduced one-half to three-fourths.

#### VOC Note:

VOC (TBAC Exempt) when thinned:

<100 g/l (0.83lbs/gall) calculated when thinned with T-0 Thinner

VOC (TBAC Non-Exempt) when thinned:

<250g/l (2.08lbs/gall) calculated when thinned with T-0 Thinner

For compliance to VOC regulations, thin or clean as follows:

South Coast Air Quality Management District (SCAQMD): Thinning is not required, however, if thinning is desired, add #800 VOC Compliant Reducer or T-0 Thinner at no more than 10% by volume. For cleaning, use #4267 low VOC cleaning thinner or other solvent in compliance with local VOC or air quality regulations.

California outside of SCAQMD: Thinning is not required, however, if thinning is desired, add T-0 Thinner at no more than 10% by volume. For cleaning, use T-9 Thinner or other solvent in compliance with local VOC or air quality regulations.

Devthane 379H reacts with atmospheric moisture, and as such when in the can should remain covered at all times. Failure to keep tin covered will result in skinning of unused material and loss of pot life.

Maximum continuous dry temperature resistance for Devthane 379H is 250°F (121°C). Exposure to continuous operating temperatures towards the maximum dry temperature resistance of this product may induce some discoloration.

Devthane 379H may be tinted with industrial colorants; contact International Paint for further information. Add colorants only to the base portion and mix thoroughly before adding the converter portion.

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.

For air spray application: Use a professional grade conventional gun with a 0.070" (1.78mm) fluid tip or larger. Adjust fluid and air pressure to achieve a good spray pattern.

Care should be taken that proper and uniform film thicknesses are obtained. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding.

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 Devthane 379H:

Bar-Rust 231	Bar-Rust 231LV
Bar-Rust 233H	Bar-Rust 233H LV
Bar-Rust 235V	Cathacoat 302H
Cathacoat 302HB	Cathacoat 303H
Cathacoat 313	Devran 203
Devran 223	Devran 261QC
Tru-Glaze-WB 4015	Tru-Glaze-WB 4030

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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](http://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	13.2 lb		3.3 lb	
	5 US gal	47.2 lb		11.9 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](http://www.international-marine.com) or [www.international-pc.com](http://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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