

**PRODUCT DESCRIPTION**

A high solids, rust-inhibitive, interior-exterior alkyd primer for use on ferrous and non-ferrous metal including galvanized metal and aluminum.

**INTENDED USES**

Ideal for structural steel, tank exteriors, piping and equipment. Excellent for use as a barrier coat when applied over sound aged oil or alkyd finishes which are to be topcoated with heavy-duty coatings. This product has exceptional resistance to exterior weathering, making it suitable for use as a shop primer.

May be topcoated on ferrous metal with epoxy and urethane coatings as well as conventional alkyd and latex products.

**PRACTICAL INFORMATION FOR DEVGUARD 4160**

<b>Color</b>	White, Gray, Red
<b>Gloss Level</b>	Matte
<b>Volume Solids</b>	51% ± 2%
<b>Typical Thickness</b>	2-2.5 mils (50-63 microns) dry equivalent to 3.9-5 mils (98-124 microns) wet
<b>Theoretical Coverage</b>	359 sq.ft/US gallon at 2.3 mils d.f.t and stated volume solids 8.90 m <sup>2</sup> /liter at 57 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 recommended topcoats	
			Minimum	Maximum
77°F (25°C)	20 minutes	60 minutes	2 hours <sup>2</sup>	Extended <sup>1</sup>

<sup>1</sup> See International Protective Coatings Definitions & Abbreviations

<sup>2</sup> When overcoating with epoxy, urethane or waterborne finish coats, allow 48-72 hours drying time at 77°F (25°C).

**REGULATORY DATA**

<b>Flash Point</b>	108°F (42°C)
<b>Product Weight</b>	11.8 lb/gal (1.42 kg/l)
<b>VOC</b>	3.49 lb/gal (419 g/lit) EPA Method 24

See Product Characteristics section for further details

**SURFACE PREPARATION**

All surfaces to be coated should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with ISO 8504:2000.

**New Surfaces:**

**Steel**

Best results are obtained over a surface abrasive blasted to commercial blast cleanliness (SSPC-SP6) or ISO 8501-1:2007 Sa2. Performance over hand or power tool cleaned surfaces is dependent on the degree of cleaning.

**Galvanized Steel**

Degrease to SSPC-SP1 and remove any white zinc corrosion products by hand abrasion cleaning. Self prime with Devguard 4160.

**Previously Painted Surfaces:**

Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Sanding is not required if the surface is properly and thoroughly cleaned (scuff sanding is required only on glossy, hard, slick or dense surfaces which are subject to high levels of moisture). Remove loose paint. Scrub heavy chalk exterior areas and overhead areas such as eaves with soap and water. All existing mildew must be removed by washing with a solution of 16 oz. (473 ml) liquid household bleach and two oz. (59 ml) non-ammoniated liquid detergent per gallon (3.785 L) of water. Rinse surfaces clean with water and allow to dry for 24 hours. Prime bare areas with Devguard 4160.

For optimum performance in more corrosive areas, entire surface should be abrasive blast cleaned and primed with Devguard 4160.

**APPLICATION**

<b>Mixing</b>	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
<b>Airless Spray</b>	Recommended	Use a 17 thou (0.43mm) tip size and adjust pressure as needed.
<b>Brush</b>	Recommended	Multiple coats may be required to achieve specified film thickness.
<b>Roller</b>	Recommended	Multiple coats may be required to achieve specified film thickness.
<b>Thinner Cleaner</b>	Do not thin T-5 Thinner	
<b>Work Stoppages</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with T-5 Thinner. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage.	
<b>Clean Up</b>	Clean all equipment immediately after use with T-5 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.	

**PRODUCT CHARACTERISTICS****Advantages:**

- May be used on both ferrous and galvanized metal
- Excellent corrosion resistance
- Fast drying
- May be topcoated with heavy-duty coatings
- Lead and chromate free
- High solids
- Performance alternate for Federal Specifications TT-P-615D, TT-P-636D, and TT-P-645B

Devguard 4160 is not suitable for immersion.

May be tinted with up to 2 oz./gal of industrial colorants.

Over-application will result in solvent retention and prolonged periods will be required before the film achieves maximum hardness.

Do not apply if temperature is less than 50°F (10°C), relative humidity exceeds 85% or temperature is within 5°F (3°C) of dew point.

Devguard 4160 is not recommended on metal where pooling water is likely, such as roofs, etc. Avoid strong solvent topcoats such as epoxies and urethanes when used over galvanized metal.

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 topcoats are recommended for Devguard 4160:

Bar-Rust 231	Devflex 4206QD
Devflex 4208QD	Devflex 4212HP
Devflex 4216HP	Devflex 659
Devguard 4303	Devguard 4306
Devguard 4308	Devguard 4309
Devguard 4348	Devran 224HS
Devthane 359	Devthane 359H
Devthane 378	Devthane 379
Devthane 389	Tru-Glaze 4508H
Tru-Glaze-WB 4406	Tru-Glaze-WB 4408
Tru-Glaze-WB 4426	Tru-Glaze-WB 4428
Unigrip 4380	Unigrip 4382

### 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	Vol	Pack
	1 US gal	1 US gal	1 US gal
	5 US gal	5 US gal	5 US gal
For availability of other pack sizes contact International Protective Coatings			
SHIPPING WEIGHT	Unit Size		
	1 US gal		12.1 lb
	5 US gal		59.1 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 International Paint 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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