

Epoxy

PRODUCT DESCRIPTION A high performance, two-component chemically-cured 100% solids epoxy penetrating sealer.

INTENDED USES Improves the effectiveness and efficiency of the maintenance painting process by penetrating and sealing crevices, joints, back-to-back angles of existing structures, and edges of old coatings, improving the service life of the maintenance system. Also serves to seal aged “white rusted” zinc surfaces for recoating.

Recommended for rusty steel when environmental economic or safety concerns restrict abrasive blast cleaning. The extraordinary penetrating properties of Pre-Prime 167 provide a means of reinforcing rusty steel substrates, ensuring adhesion of subsequent coatings. Equally effective at penetrating, reinforcing and sealing concrete and masonry surfaces in all industrial environments.

PRACTICAL INFORMATION FOR PRE-PRIME 167

Colour	Colourless
Gloss Level	Semi-gloss
Volume Solids	100%
Typical Thickness	25-38 microns (1-1.5 mils) dry equivalent to 25-38 microns (1-1.5 mils) wet
Theoretical Coverage	31.30 m ² /litre at 32 microns d.f.t and stated volume solids 1253 sq.ft/US gallon at 1.3 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Air spray, Brush, Roller
Drying Time	Touch dry and hard dry information is not applicable for Pre-Prime 167 Minimum overcoating interval is when the Pre-Prime 167 film 'sets up' and becomes tacky. Maximum overcoating interval is 72 hours after the Pre-Prime 167 film becomes tacky.

REGULATORY DATA

Flash Point (Typical)	Part A 101°C (214°F); Part B 57°C (135°F); Mixed 43°C (109°F)
Product Weight	1.02 kg/l (8.5 lb/gal)
VOC	0.79 lb/gal (95 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.

Rusty Steel and Weathered Rusty Galvanized Metal

Pre-Prime 167 is designed for less than ideal surface preparation. However, performance will be improved as surface preparation improves. Best performance will be obtained by treating all surfaces with Devprep 88 or other suitable cleaner, followed by a high pressure water wash before applying Pre-Prime 167.

Concrete and Masonry

Remove oil, grease, mildew, form release agents, loose laitance, and foreign matter.

Previously Painted Surfaces:

Remove all loose and peeling paint, loose rust or other surface contaminants. Clean using Devprep 88 or other suitable cleaner, followed by high pressure water wash. Apply a test patch of Pre-Prime 167 to confirm compatibility with existing coating systems.

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 Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.	
Mix Ratio	3 part(s) : 1 part(s) by volume	
Working Pot Life	10°C (50°F)	15°C (59°F) 25°C (77°F)
	6 hours	5 hours 4 hours
Airless Spray	Recommended	Use a 0.22mm (9 thou) tip size and adjust pressure as needed.
Air Spray (Conventional)	Recommended	
Brush	Suitable	
Roller	Suitable	See Product Characteristics section for further details
Thinner	DO NOT THIN	
Cleaner	T-10 Thinner	
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with T-10 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.	
Clean Up	Clean all equipment immediately after use with T-10 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:

- Low VOC
- Reinforces rusty steel, masonry, and aged "white rusted" zinc surfaces
- Penetrates surface rust, crevices, back-to-back angles
- Penetrates pores and tiny cracks in concrete and masonry surfaces
- Cures to a tough, water resistant coating
- Low film thickness required
- No shrinkage
- Applies easily by brush, roll or spray

Not recommended for use without a topcoat.

Air spray is preferred for appearance and build. Excessive air pressure can cause overspray problems.

For roller work, use a clean synthetic roller with 1/4" or 1/2" nap. New rollers should be thoroughly wet with T-10 Thinner and spun vigorously to remove loose fibres. Pre-Prime 167 is low in viscosity and usually, one coat is sufficient but porous surfaces may require two coats. Pre-Prime 167 should be applied in one thin wet coat, sufficient to completely cover and penetrate to the steel surface. Do not apply heavy coats and avoid puddling.

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.

SYSTEMS COMPATIBILITY

The following topcoats are recommended for Pre-Prime 167:

Bar-Rust 231	Bar-Rust 231LV
Bar-Rust 233H	Bar-Rust 233H LV
Bar-Rust 235	Bar-Rust 235V
Bar-Rust 236	Devran 201H
Devran 203	Devran 224HS
Devran 223	

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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	0.75 US gal	1 US gal	0.25 US gal	1 US quart
	5 US gal	3 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	8.4 lb		2.8 lb	
	5 US gal	33.7 lb		11.2 lb	
STORAGE	Shelf Life	12 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.

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