

PRODUCT DESCRIPTION

Generic: Chelated Polymeric Oxirane

General Description: A high performance, two-component chemically-cured 100% solids epoxy penetrating sealer.

Typical Uses: 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, insuring adhesion of subsequent coatings. Equally effective at penetrating, reinforcing, and sealing concrete and masonry surfaces in all industrial environments.

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.

SPECIFICATION DATA

Color: Amber Clear

Finish: Medium Sheen

Reduction Solvent: Do not thin.

Clean-up Solvent: T-10, T-5 thinner, or Xylene

Weight/Gallon: 8.5 lbs./gal. (1.02 kg/L)

VOC (EPA 24): 1.7 lbs./gal. (204 g/L)

Solids By Volume: 100%

Theoretical Coverage at 1.0 Mil Dry: 1604 sq. ft./gal. (39.3 m²/L)

Recommended Film Thickness: 1.5 mils (37.5 microns) dry – 1.5 mils (37.5 microns) wet

Systems: Please consult the appropriate system guide, the particular job specification or your ICI Paints' Representative for proper systems using this product. Systems must be selected considering the particular environment involved.

Minimum Dry Time (ASTM D 1640): At 77°F (25°C) and 50% R.H. to recoat – overnight. Ventilation, film thickness, humidity, thinning, and other factors can influence the rate of dry.

Substrate Temperature	50°F (10°C)	60°F (16°C)	80°F (27°C)
Minimum Recoat	When film sets up and becomes tacky. Usually within 24 hours.		
Maximum Recoat	From point film sets up and becomes tacky.		
Self Epoxy	3 Days	3 Days	3 Days
	3 Days	3 Days	3 Days

Warning: The above table provides general guidelines only. Always consult your ICI Paints' Representative for appropriate recoat windows since the maximum aged recoat time of this product may be significantly shortened or lengthened by a variety of conditions, including, but not limited to humidity, surface temperature, and the use of additives or thinners. The use of accelerators or force curing may shorten the aged recoat of individual coatings. The above recoat windows may not apply if recoating with a product other than those listed above. If the maximum aged recoat window is exceeded, please consult your ICI Paints' Representative for appropriate recommendations to enhance adhesion. Failure to observe these precautions may result in intercoat delamination.

Shelf Life: Over 12 months at 77°F (25°C) – unopened

Mix Ratio: 3 (base): 1 (converter) – see mixing instructions.

Induction: None – see mixing instructions.

Pot Life: 4 hours @ 77°F (25°C) and 50% R.H.

FEATURES

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
- 100% volume solids
- Very low viscosity
- Long pot life
- Low film thickness required
- No shrinkage
- Applies easily by brush, roll, or spray

Limitations of Use: Not recommended for use without a topcoat.

PERFORMANCE DATA

More than 22 years usage in industrial applications

PRE-PRIME 167 enhances the performance of Devoe Coatings High Performance Coatings and systems over sound rust and masonry substrates.

Service Temperature Limits: 250°F (121°C) dry

GENERAL SURFACE PREPARATION

All surfaces must be sound, dry, clean, free of oil, dirt, grease, chemicals and foreign matter.

Surfaces: Rusty Steel and Weathered Rusty Galvanized Metal – PRE-PRIME 167 Sealer is designed for less than ideal surface preparation. However, performance will be improved as surface preparation improves. All oil/grease contaminants, loose rust, loose scale and loose paint must be removed. Best performance will be obtained by treating all surfaces with DEVPREP® 88 Cleaner, followed by a high

pressure water wash before applying PRE-PRIME 167 Sealer. **Concrete and Masonry** – Remove oil, grease, mildew, form release agents, loose laitance, and foreign matter.

Previously Painted Surfaces: Remove loose and peeling paint, loose rust and other surface contaminants. Clean with DEVPREP 88 Cleaner or other suitable cleaner. **Apply a test patch to confirm compatibility of PRE-PRIME 167 with existing coating systems.**

DIRECTIONS FOR USE

Tinting: Do not tint.

Thinning: Do not thin.

Mixing: PRE-PRIME 167 Sealer is a two component product supplied in 4 gallon and 1 gallon kits which contain the proper ratio of ingredients. The entire contents of each container must be mixed together. Add the converter portion to the base portion slowly with continued agitation. After the converter add is complete, continue to mix slowly until homogeneous. **Do not thin this material.** Mixed material is usable for 4 hours; if it thickens, do not add thinner, but discard and mix fresh material. Avoid storing or placing containers in direct sunlight.

Application: Brush, roll or conventional spray. For airless spray apply with a .009 tip and low pressure (just enough to atomize the product). Air spray is preferred for appearance and build. To minimize overspray, use low air pressure and pot pressure – 5 to 10 psi. For roller work use a clean synthetic roller with 1/4" – 1/2" nap. New rollers should be thoroughly wet with T-10 Thinner and spun vigorously to remove loose

fibers. (PRE-PRIME 167 Sealer is low in viscosity.) Usually one coat is sufficient, but for porous surfaces two coats may be required. It should be applied in one thin, wet coat sufficient to completely cover and penetrate to the steel surface. Do not apply heavy coats.

Spreading Rate: Apply at 1069 sq. ft. per gallon (26m²/L) depending on surface texture and porosity. Make allowances for any losses due to overspray or surface irregularities.

Topcoats: Accepts a wide variety of Devco Coatings High Performance Coatings. Commonly used with DEVRAN® 224HS, DEVTHANE®, BAR-RUST® 233H and BAR-RUST 235 Coatings.

Dry Time: At 77°F (25°C) & 50% R.H., dries to recoat overnight. Low temperature will retard dry. Minimum recommended substrate temperature is 50°F (10°C). After overnight cure, PRE-PRIME 167 may be overcoated if still tacky (not wet). Should be overcoated within 72 hours from point of being tack free.

Clean-up: Use T-10 Thinner.

PRECAUTIONS

DANGER! COMBUSTIBLE LIQUID AND VAPOR. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD - CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Products in this series contain solvents. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. For emergency information call (800) 545-2643. Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information. Keep away from heat, sparks and flame. Do not smoke. Vapors may ignite. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. If sanding is done, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. Avoid contact with eyes and skin. If you experience eye watering, headaches, or dizziness, leave the area. If properly used, a respirator may offer additional protection. Obtain professional advice before using. Close container after each use. **FIRST AID: In case of skin contact, wash **thoroughly** with soap and water. If any product remains, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin, then wash again with soap and water. Repeated applications may be needed. Remove contaminated clothing. For eye contact, flush **immediately** with large amounts of water, for at least 15 minutes. **Obtain emergency medical treatment.** If swallowed, **obtain medical treatment immediately.** If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, **get medical help.** **KEEP FROM FREEZING.****

DS86-1003

SHIPPING

Flash point: 135°F (43°C)
Packaging: 1 gallon kit (3.785L) 4 gallon kit (15.14L)
 0.75 gallon base 3.0 gallon base
 0.25 gallon converter 1.0 gallon converter

Shipping Weight: 4 - 1 gallon kits - 36 lbs. (16.2 kg)
 4 gallon kit - 38 lbs. (17.2 kg)

167K0000 (01/06)
 Ad Stock #68631E



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