



# PRO INDUSTRIAL™

# 113.01 PRE-CATALYZED WATERBASED EPOXY

K45 SERIES EG-SHEL  
K46 SERIES SEMI-GLOSS

## CHARACTERISTICS

**Pro Industrial Precatalyzed Waterbased Epoxies** are revolutionary, single-component pre-catalyzed waterborne acrylic epoxies that offers the adhesion, durability and resistance to stains and most cleaning solvents usually characteristic of two-component waterborne acrylic epoxy products.

These products are low in VOC, have a very mild odor, and can be applied over a wide variety of primers on properly prepared interior metal, wood, masonry, plaster and drywall.

- Interior institutional/commercial high maintenance areas
- Upgrade surfaces painted with conventional coatings with a high performance protection system with excellent adhesion
- Corrosion and Chemical resistant
- Hospitals and Schools
- Institutional dining and kitchen areas
- Suitable for use in USDA inspected facilities

**Color:** most colors  
**Recommended Spread Rate per coat:**  
4.0 mils wet; 1.5 mils dry  
350 - 400 sq ft/gal

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

**Drying Time, @ 77°F, 50% RH:**  
temperature and humidity dependent  
Touch: 1 hour  
Recoat: 8 hours

If this product dries 72 hours or longer it must be sanded before it is recoated. This product is fully cured in approximately 5 - 7 days.

**Finish:**  
Eg-Shel 20 - 30 units @ 85°  
Semi-Gloss 55 - 65 units @ 60°

**Flash Point:** N/A

**Tinting with Blend-A-Color:**

**Use SherCOLOR Formulation System**

**Vehicle Type:** Acrylic Epoxy

**K45W00051**

**VOC (less exempt solvents):**

<200 g/L; <1.67 lb/gal

**Volume Solids:** 37 ± 2%

**Weight Solids:** 50 ± 2%

**Weight per Gallon:** 10.5 lb ± 0.2 lb

## SPECIFICATIONS

### Block

- 1 ct. Loxon Block Surfacer
- 2 cts. Pro Industrial Precatalyzed Epoxy

### Drywall

- 1 ct. PrepRite 200 Latex Primer
- 2 cts. Pro Industrial Precatalyzed Epoxy

### Plaster

- 1 ct. PrepRite Wall and Wood Primer or PrepRite Masonry Primer
- 2 cts. Pro Industrial Precatalyzed Epoxy

### Masonry

- 1 ct. PrepRite Masonry Primer
- 2 cts. Pro Industrial Precatalyzed Epoxy

### Steel, Aluminum, Galvanized

- 1 ct. Pro Industrial Pro-Cryl Universal Primer
- 2 cts. Pro Industrial Precatalyzed Epoxy

### Wood

- 1 ct. PrepRite Wall and Wood Primer or PrepRite Classic Primer
- 2 cts. Pro Industrial Precatalyzed Epoxy

### System Tested:

- Substrate: Steel
- Surface Preparation: SSPC-SP6
- Primer: 1 ct. DTM Acrylic Primer
- Finish: 1 ct. Pro Industrial PreCatalyzed Epoxy Eg-Shel

### Adhesion

ASTM D 3359 ..... 5B  
100% Adhesion for light colors; Darker colors require longer cure time for same level of adhesion

### Abrasion Resistance

ASTM D 4060t ..... 74.4 mg loss  
CS-10 Wheels 1000 Gram load, 1000 cycles

### Block Resistance

Lab Assessment ..... Excellent

### Chemical Resistance

- ASTM D 1308  
Rating:  
Excellent Resistance ..... •  
Limited Resistance ..... x  
Distilled Water  
(Hot and at Room Temperature) •  
Ethyl Alcohol •  
Vinegar (3% acetic acid) •  
Alkali (10% Sodium Hydroxide) •  
Acid (10% Sulfuric Acid) •  
Soap (10% Fantastik®) •  
Fruit (orange) •  
Butter •  
Olive Oil •  
50/50 Xylene/Mineral Spirits •

### Direct Impact Resistance

ASTM D 2794 ..... >100 inch - lbs.

### Pencil Hardness

ASTM D 3363 ..... 2B

### Permeability Rating

AD/TS 2002.27A, Dry Cup  
2.0 metric perms @ 1.3 - 1.5 mils DFT

### Scrub Resistance

ASTM D 2486 ..... 500 - 600 cycles  
with Stiff Bristle Brush and Pumice  
Scrub Media

### Stain Resistance

- ASTM D 3023  
Rating:  
Excellent Resistance ..... •  
Limited Resistance ..... x  
Mustard •  
Grape Juice •  
Red Crayon x  
Yellow Crayon •  
Blue Crayon •  
Lipstick, Red •  
Iodine x  
Shoe Polish •  
Washable Ink •  
Permanent Ink x  
Coffee •  
10% Sodium Hydroxide (alkali) •  
Acetic Acid •

# 113.01

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### SHERWIN WILLIAMS.

#### SURFACE PREPARATION

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination including mildew by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with PrepRite® ProBlock® Primer Sealer.

**Aluminum and Galvanized Steel** - Remove any oil, grease, or other surface contamination. Remove all corrosion with sandpaper, steel wool, or other abrading method.

**Drywall** - Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

**Masonry, Concrete, Cement, Block** - All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with PrepRite® Masonry Primer.

#### SURFACE PREPARATION

**Plaster** - Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.

**Steel**  
Rust and mill scale must be removed using sandpaper, steel wool, or other abrading method. Bare steel must be primed the same day as cleaned.

**Wood**  
Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

**Caulking**  
Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

#### APPLICATION

Apply at temperatures above 50°F.  
No reduction needed.

**Brush**  
Use a nylon/polyester brush.

**Roller**  
Use a 1/4" - 1/2" nap synthetic cover.

**Spray—Airless**  
Pressure ..... 1800-2700 psi  
Tip ..... .015"-.021"

#### CLEANUP INFORMATION

Clean spills, splatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

#### CAUTIONS

For interior use only.  
Non-Photochemically Reactive  
Protect from freezing.  
This product is **NOT** recommended for floors or for submerged surfaces, or in areas subject to continuous high moisture such as shower stalls (two-component solvent-based, conventional epoxy products or possibly "wet surface" specialty epoxy products are recommended for these areas).

#### LABEL CAUTION

CAUTION contains CRYSTALLINE SILICA. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.**

HOTW 09/26/2006 K45W00051 04 00

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.