

PRODUCT DESCRIPTION

Generic: Epoxy Polyamide

General Description: A high performance, versatile, two package, chemically cured tile-like epoxy coating with excellent chemical, corrosion, moisture, stain, and abrasion resistance. Use it as a coating in corrosive and chemical environments, or as a high performance architectural coating (HIPAC).

Typical Uses: For use on interior or exterior properly prepared and primed metal or masonry surfaces. Also used on concrete floors and interior primed drywall, plaster and wood surfaces. Ideal for structural steel, piping, tank exteriors, and equipment as well as the hard usage areas of food processing plants, dairies, schools, hospitals, restaurants, corridors, public housing and public buildings.

FEATURES

Advantages:

- Chemical and stain resistant
- Resists splash and spillage of acids, alkalis, salts, solvents, oils, grease, foodstuffs and detergents
- Long lasting tile-like finish
- Outstanding hardness and toughness
- Abrasion resistant
- Easily washed and cleaned
- Performance alternate for Federal Specifications TT-C-535B (TYPE I&II) and TT-C-550C (Class A)
- Excellent moisture resistance

Limitations of Use: Exterior exposure will cause early dulling and loss of gloss, but this does not affect protective properties. Epoxy Coatings may yellow during application and cure if exposed to the combustion byproducts of improperly vented fossil fuel burning heaters.

SPECIFICATION DATA

Color: White & custom colors

Finish: Gloss, 80 units minimum @ 60°

Weight/Gallon (mixed): 10.2 lbs./gal. (1.22 kg/L)-varies with color

VOC (EPA 24): <3.5 lbs./gal. (<420 g/L)-varies with color

Solids By Volume (mixed): 52% ± 2% - varies with color

Theoretical Coverage at 1.0 Mil Dry: 834 sq. ft./gal. (19 m²/L)

Practical Coverage: Apply at 167-278 sq. ft./gal. (4-6.8 m²/L) on smooth, sealed surfaces. Actual coverage may vary depending on substrate and application method.

Recommended Film Thickness: 3.0-5.0 mils (75-125 microns) dry - 5.8-9.6 mils (145-240 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 3 mils (75 microns) DFT & 50% RH:

Substrate Temperature	77°F (25°C)
Minimum Recoat	16 Hours
Dry Hard	24 Hours
Maximum Recoat Self	30 Days

Ventilation, film thickness, humidity, thinning and other factors can influence the rate of dry.

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: 1 year minimum – unopened

Mix Ratio By Volume: 1 (base): 1 (converter)

Induction: 30 minutes - above 70°F (21°C), 45 minutes - below 70°F (21°C)

Pot Life: 6-8 hours @ 77°F (25°C)

PERFORMANCE DATA

PROPERTY	TEST METHOD	RESULTS
Abrasion Resistance	ASTM D 4060, CS-17 wheels, 1000g load, 1000 cycles	180mg loss
Pencil Hardness	ASTM D 3363	H
Adhesion	ASTM D 4541	1000 psi
Humidity Resistance	ASTM D 4585, 1000 hours	No effect
Salt Spray (Fog) Resistance	ASTM B 117, 1000 hours	Very Good
Service Temperature Limit:		250°F (121°C) in air
Flame Spread Rating: Class A (0-25)	ASTM E 84	May discolor at temperatures over 140°F (60°C) Class A (0-25) over noncombustible surfaces

DANGER! FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. Read label and Material Safety Data Sheet Prior to Use. See other cautions on last page. DSF3-0696

GENERAL SURFACE PREPARATION

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, form release agents, curing compounds, efflorescence, loose and flaking paint and other foreign substances.

New Surfaces: Concrete, Plaster and Masonry - Cure at least 30 days before painting. pH must be 10.0 or lower. Remove laitance and roughen unusually slick poured or pre-cast concrete by acid etching or abrasive blasting. Follow acid manufacturer's application and safety instructions. Rinse thoroughly with water and allow to dry. Remove loose aggregate. Prime with this product. Fill concrete block in areas not subject to moisture with latex filler BLOXFIL® 4000 or PREP & PRIME® 3010 filler. In moisture prone areas, fill with this product or filler TRU-GLAZE-WB™ 4015. Fillers must dry overnight before coating. **Drywall** - Prime with PREP & PRIME GRIPPER® 3210 primer sealer. **Wood** - Prime with PREP & PRIME GRIPPER® 3210 primer sealer. **Steel** - Prime with DEVRAN® 205. **Galvanized Metal and Aluminum** - Prime with DEVRAN 205 or DEVRAN 203 epoxy primers.

Previously Painted Surfaces: Old coatings should be tested for lifting. If they lift, remove them. Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Dull glossy areas by light sanding. Remove sanding dust. Remove loose paint. Prime bare areas with primer specified under **New Surfaces**.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

DIRECTIONS FOR USE

Tinting: Tint the appropriate 4508-XXXX Component A base with ICI Paints Colorants or CHROMA-CHEM® 844 colorants. Mix thoroughly before 4508-9999 Component B is added. For deeper colors use CHROMA-CHEM 844 colorants only for tinting.

Thinning: Do not thin.

Mixing: Add 4508-9999 Component B to 4508-XXXX Component A in a 1:1 ratio. Stir thoroughly and scrape sides of can to ensure thorough blending. Allow the mixed material to stand 45 minutes at temperatures below 70°F (21°C) before use. Above 70°F (21°C) allow 30 minutes induction time. Always restir before use. Mixed material is usable for six to eight hours; if it thickens, do not add thinner, but discard and mix fresh material. Disproportional mixing of the two components may cause yellowing. Avoid storing or placing containers in direct sunlight

Note: Surfaces coated with this product may become slippery when wet. For additional slip resistance in areas of pedestrian traffic, add one pound per gallon of coarse pumice or other texturing material.

Spreading Rate: Apply at 167-278 sq. ft./gal. (4-6.8 m²/L) or 5.8- 9.6 mils wet (3.0-5.0 mils dry) on smooth, sealed surfaces. For best hiding, tint primers toward finish coat color. Certain shades of yellow, orange, pink and red may require multiple coats.

Application: May be applied by brush, roller or spray. Do not thin. For airless spray, use a .015" tip. Adjust pressure as needed. Spray is preferred for appearance and build. Use clean medium nap synthetic roller. New rollers should be thoroughly wet with xylene and spun vigorously to remove loose fibers. Apply at 5.8 mils wet film (3.0 mils dry). Spray, if desired, will build 9.6 mils wet (5.0 mils dry). Usually, one coat is sufficient, but for rough or porous surfaces two coats may be required to obtain the smoothness desired. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding.

Drying Time: Application temperature range is 60°-95°F (16°- 35°C). At 77°F (25°C) and 50% R.H., dries to touch in three to five hours and to recoat overnight. Full cure in seven days. Dries to light foot traffic on concrete floors is 24 hours. Low temperature, high humidity, thick films, or poor ventilation will increase these times. Lack of ventilation and/or the use of portable fuel burning heaters that produce exhaust gases, during application and initial stages of curing, may cause yellowing to occur.

Clean-up: T-10 Thinner.

PRECAUTIONS

DANGER! FLAMMABLE 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 CARDIAC, BLOOD, LIVER, KIDNEY DAMAGE. CONTAINS CRYSTALLINE SILICA WHICH CAN CAUSE LUNG CANCER AND OTHER LUNG DAMAGE IF INHALED. WHEN TINTED, CONTAINS ETHYLENE GLYCOL WHICH CAN CAUSE SEVERE KIDNEY DAMAGE WHEN INGESTED AND HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMALS. 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.** DS259-1003

SHIPPING

Flash Point: 54°F (12°C)

Packaging: 2 gallon kit (7.57L) 10 gallon kit (37.95L)
1 gallon Component A 5 gallons Component A
1 gallon Component B 5 gallons Component B

Shipping Weight: 2 gallon kit - 26 lbs. (12 kg)
10 gallon kit - 113 lbs. (51.3 kg)

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4508 (10/07)
Ad Stock #68624F



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