LIFE SPECIALTY COATINGS Est. 1963

WATERPROOFING
TECHNICAL DATA SHEET

# 14 SERIES EPOXIES

## High Build 2k Water Based Epoxy

DESCRIPTION

A premium quality two-part water base epoxy concrete sealer that provides epoxy toughness, chemical resistance and durability with the convenience of a water base system. For interior concrete floors only.

USES, FEATURES & BENEFITS

ADVANTAGES

- Easy water clean-up
- High gloss
- Long pot life
- Excellent coverage-hide
- Low VOC
- Hot tire pick-up resistant
- Fast drying
- Epoxy toughness
- Excellent chemical and solvent resistance

USES

- Interior concrete floors
- Industrial floors
- Garages
- Showrooms
- Warehouses
- Kitchens
- Restaurants

PACKAGE

4 to 1 Kit - 1.25 Gallon Kit = 1 Gallon Part A & 1 Quart Part B

FINISH: Gloss

COLORS AND TINT BASES:

- -00 White
- -27 Deep Tan
- -41 Cape Cod Gray
- -40 Travatan
- -42 Stone Gray
- -98 Accent Base

TECHNICAL & PHYSICAL PROPERTIES

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|---|---|
| Type: | Two component water base epoxy |
| Pot Life: | 1.25 gallon kit: 90 minutes at 77° F |
| Diluent: | Water (Add to Part "A" only) |
| Mixture Solids Content: | 56% by weight |
| Viscosity: | 95  5 KREBS units at 77° F |
| Flash Point: | 140° F > 250° F |
| Maximum V.O.C.: | 50 grams per liter |
| Pencil Hardness: | 2H |
| Gloss White Stain Resistance: | Salt Water  Discoloration after 12 weeks<br>10% NaOH  No attack<br>10% H2SO4  Blistering after 10 weeks<br>Xylene  No attack |

PREPARATION & APPLICATION

- Surface must be structurally sound, dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. Surface must be porous and profiled (See Preparation section.) The concrete should be at least 2500 psi and feel like 30-grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 28 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTMF-2170).
- Before starting flooring work, test existing concrete slab to make sure there is no efflorescence, moisture and/or high levels of alkalinity.
- Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for an epoxy flooring installation in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the applicator. Life Paint bears no responsibility for failures due to any of the above conditions.

CLEANING: Clean surface entirely with TSP and rinse completely with water several times. Remove mildew or algae using 50/50 blend of household bleach and water. (Do not allow bleach to come into contact with acid). Read bleach instructions and warnings carefully before using. Rinse thoroughly.

CRACK PREPARATION: Use a concrete diamond blade to cut out all cracks and joints to 1/4 inch width and 1/4 inch depth. Clean joints thoroughly and remove all concrete dust and debris.

ETCHING:

- Clean surface entirely with Liquid TSP and rinse completely with water several times. The surface must be porous enough to allow the product to soak in. Surface should feel like 30 grit sand paper.
- Prepare surface by either shotblasting, grinding, Liquid Grind® (approved liquid etch) or, if a previous coating is currently installed, sanding. Prepare concrete profile equal to CSP 2-3 as specified by ICRI (International Concrete Repair Institute. When using a mechanical method, be sure not to be too aggressive leaving behind grind marks or grinding it to a smooth surface.

MILDEW: DO NOT PAINT OVER MILDEW. Mildew is a fungus, brown, black, gray or even white in color, and will rapidly grow through any coating applied over it. A solution of 50% household bleach and 50% water will kill the mildew. See precautions on bleach label for handling before using.

SELF PRIMING REQUIREMENTS: Gently blend approximately 1 gallon of water with 1 gallon of 14 Series part A thoroughly, scraping the sides and bottom of the container. Then add 1 quart of 14 Series part B to the part A mixture and apply as thin as possible, approximately 600-800 sq. ft. per batch. (2.25 gallons)

MIXING: MIX 4 PARTS "A" WITH 1 PART "B" IN BATCHES NO LARGER THAN 1.25 GALLON AT A TIME EXCEPT AS NOTED ABOVE UNDER "SELF PRIMING REQUIREMENTS".

TOP COAT: In a clean and dry bucket, mix 4 parts A and 1 part B together using an agitator, jiffy mixer or stir stick. Mix slowly for at least 2 minutes or until completely combined. Prepare only the amount you can use in 90 minutes in quantities of no more than 1.25 gallons at a time. Pot life is approximately 90 minutes.

APPLICATION: For best results on horizontal surfaces, pour the entire mixture evenly onto the surface as soon as possible after mixing. Use a lint-free, 3/8" nap roller, or squeegee to spread mixture over the surface, backrolling the area to be coated. For best results apply at least 2 coats at 250 sq. ft. per gallon. Clean tools with soap and water before curing begins. To increase skid resistance, stir in an approved non-skid additive into your A & B mixture.

COVERAGE: Three (3) mil dry film at 250 sq. ft. per gallon. Six (6) mil dry film at 125 sq. ft. per gallon.

DRYING TIME/CURE TIMES: Under normal Conditions (70°F & 50% Humidity) dries to touch in 2-4 hours. May be recoated when dry to the touch. Do not apply to surfaces when ambient or surface temperatures are below 50°F. Higher temperatures and lower humidity will accelerate cure times and reduce working time.

APPLICATION IN EXTREMELY HOT WEATHER:
- Dampen the floor surface to be coated. (Do not saturate). Allow surface to dry.
- In a large bucket, mix and prepare no more than a 1.25 gallon kit at time.
- Pour entire mixture evenly onto the horizontal surface to be coated.

REPAIRS & MAINTENANCE
CLEAN-UP: Uncured material can be removed with soap and water. Cured material can only be removed mechanically.

MAINTENANCE: Floors should be inspected during use for inconsequential damage and wear. Damaged areas should be remediated as soon as possible to prevent further damage to the area(s). To repair, remove any loose coating and refer to this specification repeat process in affected area. Clean daily using a dry soft bristled broom, dry mop, or wet mop with a floor/tile cleaner, to retain the epoxy looking new.

WARNING! SLIP AND FALL PRECAUTIONS AS THESE PRODUCTS REDUCE SURFACE POROSITY, FLOOR SLIPPERINESS IS A POTENTIAL HAZARD.

CAUTION: The A-B mix of Diamond Glaze will dry to a tough thermoset film when cured and is very difficult to remove. For this reason, wear protective clothes, gloves, and goggles when mixing or applying this product.

For technical support or more information on application, call Life Specialty Coatings (562) 944-6391.

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DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and LIFE PAINT makes no claim that these tests or any other tests, accurately represent all environments.

Warranty: When the warranted product is applied in accordance with this technical data sheet, label instructions and common sense widely accepted painting practice and procedures, Life Specialty Coatings will warrant said product against manufacturing defects that might cause premature failure such as blistering, peeling, or unusual wear. Directions are as complete as possible but cannot encompass all conditions, applications, and/or surfaces beyond manufacturer's control. In the event of a warranted failure and upon the presentation of proof of purchase, the remedy will be the provision price for said product. This warranty does not include labor or the costs associated with labor. This warranty may not be transferred or assigned and extends specific legal rights which may vary from state-to-state. No other warrantee is expressed or implied. Life Specialty Coatings Company, Santa Fe Springs, CA (562)944-6391