

CORCHEM[®] 402 EPOXY FOR AIRPORT LIGHTING CANS

GENERIC	Advance proprietary technology diglycidyl ether of bisphenol-A resin reacted with a unique modified multiple ring cycloaliphatic amine adduct activator. The polymer structure is designed to be extremely tough with increased elevated temperature and chemical resistance. It is reinforced with a select blend of angular aggregates.
DESCRIPTION	<p>An epoxy binder combined with special aggregates to produce a high strength, very adhesive, fast set, moisture tolerant, extremely tough grout. CORCHEM[®] 402 meets the FAA-P606 requirements for bonding in-pavement airfield light fixture bases into concrete pavement, taxiways and landing zones.</p> <p>The ratio of epoxy to aggregate can be adjusted to decrease or increase the viscosity for placement of the grout. Choices of summer or winter formulations are available to match environmental application conditions</p>
USE	Superior grout for anchoring airport light cans into pavement that is fast setting where minimal down time is required.
ADVANTAGE	Fast Setting, Rapid Development of Strengths, Winter and Summer Formulations, Moisture Tolerant, Adjustable Flowable Grout, Easy to Use.
SERVICE LIMITATIONS	Temperature resistance up to 300°F depending upon the individual exposure. CONTACT CORCHEM [®] FOR SPECIFIC RECOMMENDATIONS BEFORE PROCEEDING for exposure to corrosive chemicals and elevated temperatures.
COLORS	Amber [will take on the color of aggregate].
FINISH	Will vary in accordance to aggregate ratio.
CAUTION!	Surface color variation and chalking will occur with extended exposure to sunlight.
VOLUME SOLIDS	100%
GROUT VOLUME COVERAGE	1 cubic foot requires approximately: 1:1 ratio – 4.7 gallons of epoxy & 47 pounds of aggregate. 1:2 ratio – 3.4 gallons of epoxy & 68 pounds of aggregate. 1:3 ratio – 2.7 gallons of epoxy & 80 pounds of aggregate.
COMPONENTS	Three. By volume: 1 to 2 [Base : Activator] plus Aggregate.
POT LIFE	At 70°F Winter Formula – ½ hour & Summer Formula – 1 hour. Pot life is <u>significantly shorter for higher temperatures or larger quantities</u> and longer for lower temperatures or smaller quantities.
VOC CONTENT	0 gms/l or 0.0 lbs/gal. Conforms to United States National Volatile Organic Compound Emission Standards.

THINNER	None.
APPLICATION METHODS	Pour
TEMPERATURES	Apply at 35°F or higher [Material and Substrate]..
CURING TIME	Curing times are <u>significantly shorter for higher temperatures or larger quantities and longer for lower temperatures or smaller quantities.</u>
PACKAGING	15 Gallon Kit [3 – 5 gallon pails] and 165 Gallon Kit [3 – 55 gallon drums].
SHELF LIFE	1 year from shipment date protected between 40°F and 100°F.
DOT/FLASH POINT	Non-Flammable Liquid Classification.
PERFORMANCE DATA	Contact CORCHEM® for desired information. Mixed Viscosity [Components A & B]: 700 cps Mixed Viscosity [Grout with Aggregate]: Pourable Meets or exceeds FAA-P606 requirements Tensile Strength (ASTM D 638): Greater than 1,000 psi Bond Strength (ASTM C 882): Greater than 3,000 psi Compression Strength (ASTM D 695): Greater than 13,800 psi Hardness – Shore D (ASTM D 2240): 85 Tensile Elongation (ASTM D 638): 8.0% Ultimate Flexural Strength: 16,100 psi Coefficient of linear expansion cm/cm/degree C (ASTM D 1168): .00040 Dielectric Strength (ASTM D 149): 500 volts/mil Arc Resistance sec (ASTM D 495): 145
CONCRETE	Concrete must have a minimum 28 day cure prior to application.
SURFACE PREPARATION	Remove any curing agent, form release materials, oils, wax, moisture or any material that may affect bonding.
APPLICATION MIXING	Mix using heavy-duty electric drill and mud paddle. Combine 2 parts Component A and 1 part Component B in mixing pail and mix for 2 to 3 minutes. Continue mixing and slowly add 1 to 3 parts aggregate [sand] to desired viscosity. Mix until grout is at uniform consistency. Note: <u>Avoid mixing air into the blend.</u> Change mixing pails often as prior mix residue can cause next batch to pre set. Start with a small batch. Larger batch size will set quicker, especially when temperatures are high. For application in cold weather the product should be warmed to 70°F to 85°F prior to use. Contact CORCHEM® for recommendations for warming the product.
APPLICATION	Pour grout into desired location. Note: Using 1 gallon Ziploc Plastic Bags can make application cleaner and easier. Pour grout into bags and zip closed. Cut 1 corner of bag and place into gap between the light can and concrete. Slowly squeeze bag, pushing grout in place.
INSPECTION	Check for desired cured properties, placement, bare areas, etc. before placing in operating service.
AIRLESS SPRAY	Graco or equal. Pump ratio 30:1 or higher, 206-718 gun with fluid tip of .015" or larger orifice size with Reverse-A-Clean tip, 3/8" I.D. or larger high-pressure solvent resistant fluid line, 1/2" I.D. or larger air supply line. Continuous air source capable of 80 to 100 psi inbound pressure at pump.
CLOTHING	Wear appropriate protective garments, shoes, goggles, filter masks, etc. Use protective barrier creams on exposed skin areas.

SAFETY INFORMATION

THIS PRODUCT CONTAINS EPOXY RESINS AND AMINE COMPOUNDS. DO NOT USE IF YOU HAVE HAD A REACTION TO THESE MATERIALS.

WARNING! VAPOR HARMFUL! CAUSES SEVERE EYE AND SKIN BURNS. MAY CAUSE SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. HARMFUL OR FATAL IF SWALLOWED!

Use only with adequate ventilation. Prevent breathing of vapor or mists. Wear a properly fitted appropriate filter mask during application and until all vapors and mists are gone. Prevent contact with eyes and skin. Do not take internally. Keep closures tight and upright to prevent leakage. Keep container closed when not in use. In case of spillage, absorb and dispose of in accordance with local applicable regulations. **FIRST AID:** In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Remove and wash contaminated clothing before reuse. (Discard contaminated shoes). If inhaled, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label and MSDS information available. If swallowed, **CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.**

IN CONFINED SPACES OBEY SPECIAL SAFETY AND EQUIPMENT INSTRUCTIONS!

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