CORCHEM®

TECHNICAL BULLETIN

CORCHEM® 402 EPOXY FOR AIRPORT LIGHTING CANS

GENERAL	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	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. The ratio of epoxy to aggregate can be adjusted to decrease or increase the viscosity for placement of the grout.
USE	Superior grout for anchoring airport light cans into concrete pavement that is fast setting where minimal down time is required.
ADVANTAGE	Fast Setting, Rapid Development of Strengths, 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], or Black.
FINISH	Will vary in accordance to aggregate ratio.
NOTE	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 mixed epoxy & 47 pounds of aggregate. 1:2 ratio – 3.4 gallons of mixed epoxy & 68 pounds of aggregate. 1:3 ratio – 2.7 gallons of mixed epoxy & 80 pounds of aggregate.
COMPONENTS	Three. By volume: 2 to 1 [Component A : Component B] plus Aggregate (aggregate not supplied).
POT LIFE	1 hour at 70°F. No induction time is required. Pot life is significantly shorter for higher temperatures or larger quantities and longer for lower temperatures or smaller quantities.
VOC CONTENT	0 gms/l or 0.0 lbs/gal. Conforms to 40 CFR § 59.402 VOC content limits.
THINNER	None.
APPLICATION METHODS	Pour
TEMPERATURES	Apply at 35°F or higher [Material and Substrate].
CURING TIME	Curing times are significantly shorter for higher temperatures or larger quantities and longer for lower temperatures or smaller quantities.

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PACKAGING 15-gallon pre-measured packaged kit or 150-gallon pre-measured packaged kit (packaged in multiple of three).

SHELF LIFE 1 year from shipment date protected between 40°F and 100°F in its original sealed container.

HAZMAT DATA Hazard Class 9 – Environmentally Hazardous Substance (Component A), Hazard Class 8 – Corrosive, Sub-Class 6.1 – Toxic (Component B). This material ships in any quantity via common carrier only. *Refer to individual Component's Safety Data Sheet for complete Hazmat and Safety information.*

PERFORMANCE DATA

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. Pre-mix each component separately prior to combining as follows: **Combine 1 part Component B into 2 parts Component A** 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: ***Avoid mixing air into the blend.*** 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 proprieties, placement, bare areas, etc. before placing in operating service.

PPE / CLOTHING **Refer to the Safety Data Sheet (SDS) for complete safety information.** Wear protective garments, shoes, goggles, and filter masks. 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!

INTENDED FOR INDUSTRIAL USE BY PROFESSIONAL APPLICATORS ONLY. NOT INTENDED FOR SALE TO THE GENERAL PUBLIC. This product should not be sold or delivered to any person under 18 years of age. KEEP OUT OF THE REACH OF CHILDREN! IF, FOR ANY REASON, ADDITIONAL PRODUCT AND SAFETY INFORMATION, INSTRUCTIONS OR EXPLANATIONS ARE NEEDED, CONTACT CORCHEM® IMMEDIATELY!

LIMITED WARRANTY

WARRANTY & LIMITATION OF SELLER'S LIABILITY: CORCHEM® CORPORATION warrants only that its coatings represented herein meet the formulation standards of CORCHEM® CORPORATION.

THE ABOVE WARRANTY SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTIONS ON THE FACE HEREOF.

The buyer's sole and exclusive remedy against CORCHEM® CORPORATION shall be for replacement of the product, in the event a defective condition of the product should be found to exist. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide buyer with replacement of the product if any defect in materials is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as CORCHEM® CORPORATION is willing and able to replace the defective materials.

Technical and application information is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and CORCHEM® CORPORATION makes no claim these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

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CONTACT YOUR CORCHEM® REPRESENTATIVE FOR CURRENT TECHNICAL DATA AND INSTRUCTIONS.

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MADE IN TEXAS, USA