

CORCHEM[®] 5402 ROCK IRON[™]

GENERIC	Advanced proprietary technology. A unique high molecular weight polymer designed to be extremely tough with exceptional structural physical properties. It is reinforced with a select blend of angular aggregates.
DESCRIPTION	<p>Two-component liquid polymer binder combined with special aggregates to produce a high strength, very adhesive, fast set, moisture tolerant, durable surfacing compound. CORCHEM[®] 5402 meets the FAA-P606 requirements for bonding into concrete pavement airfield 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 surfacing compound for pavement construction or repair 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 Surfacing Compound, 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.
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], 165 Gallon Kit, [3 – 55 gallon drums], and 825 Gallon Kit, [3 – 275 gallon totes].
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.
PRIMING	When using for repair or patching, apply a priming coat of CORCHEM® 5402 ROCK IRON™ without aggregate to all exposed surfaces to facilitate bonding.
APPLICATION MIXING	Mix using heavy-duty electric drill and mud paddle or cement mixer. Combine 2 parts Component A and 1 part Component B in mixing container and mix for 2 to 3 minutes. Continue mixing and slowly add 1 to 3 parts aggregate [sand or other suitable material] to desired viscosity. Mix until compound is at uniform consistency. Note: <u>Avoid mixing air into the blend.</u> Change or clean mixing containers 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. Clean all equipment immediately with CORCHEM® 4 THINNER or Methyl Ethyl Ketone, (MEK).
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!

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!

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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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