

### CORCHEM® 100 UNIVERSAL REPAIR

<b>GENERIC</b>	Proprietary advanced technology of multifunctional novolac resins reacted with a modified cycloaliphatic amine curative. The polymer structure is extremely tough with excellent adhesive properties and is reinforced with laminar flake pigments.
<b>DESCRIPTION</b>	High performance repair material designed to provide penetration, wetting and sealing of substrates and surfaces, which will be exposed to severe chemical and physical environments. It is formulated to be extremely adhesive, hard, impact and abrasion resistant.
<b>USE</b>	CORCHEM® 100 is a 100% solids heavy-duty material designed for the repair of holidays, pits, and voids. It is intended for use in both field and shop operations. The principal use is for holiday repair of corrosive problem areas encountered in oil field production equipment, industrial and chemical manufacturing facilities. C100 is self-priming to steel, concrete, and most substrates and poorly prepared surfaces. Suitable for use with solvent bearing and solventless epoxies, novolacs, vinyl esters, and polyesters. Suitable for top coating however, no topcoat is necessary.
<b>SERVICE LIMITATIONS</b>	Temperature resistance up to 300°F depending upon the individual exposure. Contact CORCHEM® for recommendations regarding exposure to specific corrosive chemicals and gases in immersion service and exposure to elevated temperatures and/or pressures, or use with cathodic protection systems. Avoid sudden depressurization of lining. NOTE: Exterior insulation of tanks, vessels and processing equipment is recommended to prevent "cold wall effect" if interior lining is subject to elevated temperatures.
<b>COLORS / FINISH</b>	Gray (when mixed). Medium Gloss. Finish may vary due to texture and porosity of substrate.
<b>NOTE:</b>	Color and gloss will be affected by immersion service and exposure to elevated temperatures. Chalking will occur with extended exposure to sunlight (UV).
<b>VOLUME SOLIDS</b>	100%
<b>DRY COVERAGE</b>	Theoretical (no loss): 1600 sq. ft. per gallon for one mil (.001) or 231 cu. in. per gallon. When computing coverage allow for application loss and surface irregularities.
<b>DRY FILM THICKNESS</b>	As required. Multiple applications may be necessary to achieve the desired film thickness or due to variations in design configurations, application equipment, temperature and other factors.
<b>COMPONENTS</b>	Two. By volume 1 to 1 (Component A : Component B).
<b>POT LIFE</b>	Not applicable, components are mixed via static mixing tube. Mixed material will remain fluid in mixing tube for approximately 1 hour. Static mixing tubes must be discarded after each use.
<b>VOC CONTENT</b>	0 gms/l or 0.0 lbs/gal. Conforms to Conforms to 40 CFR §59.402 VOC content limits.
<b>THINNER</b>	DO NOT THIN
<b>APPLICATION METHODS</b>	Squeegee applicator, putty knife or trowel.
<b>TEMPERATURES</b>	Apply at 35°F to 125°F (Air and Surfaces) and 5°F above the dew point. Sudden and/or substantial temperature change during curing process or in-service conditions can cause film defects.

**CURING TIME** This curing schedule is predicated upon no added thinner and application conditions where the mixed product, substrate, and ambient air temperatures are the same:

Temperature	50°F	70°F	90°F
Minimum Recoat Time	4 Hours	2 Hours	1 Hours
Maximum Recoat Time	16 Hours	8 Hours	4 Hours
Immersion – Final Cure	48 Hours	24 Hours	12 Hours
Topcoat Time	16-32 Hours	8-16 Hours	4-8 Hours

*If Topcoat is applied, refer to Technical Bulletin for Topcoat material's curing schedule.*

Curing times are significantly shorter for higher temperatures and are longer for lower temperatures. Curing times are affected by the method of application; thickness of applied film, the amount of ventilation and air circulation; relative humidity; etc.

**PACKAGING** 1.0-oz. premeasured cartridge kit (10 per box). Each box contains 10 cartridges, 20 static mixing tubes and 10 squeegee applicators.

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

**HAZMAT DATA** Hazard Class 8 – Corrosive (Component A), Hazard Class 9 – Environmentally Hazardous Substance (Component B). This material ships as Not Dangerous Goods in Excepted Quantities. *Refer to individual Component's Safety Data Sheet for complete Hazmat and Safety information.*

**SURFACE PREPARATION** Surface to be repaired should be cleaned prior to abrasion as prescribed in SSPC-SP 1 (Solvent Cleaning). Using coarse grit sandpaper, uniformly abrade the surface and feather the edges. The surface must be roughened sufficiently to provide a profile adequate to ensure a mechanical bond. Surfaces must be clean, dry, and free of any visible dirt, chalk, grease, oils, salts, and deleterious materials before application is performed. NOTE: some vinyl ester materials contain paraffin, the presence of paraffin in the material being repaired may affect adhesive properties.

**WELDING** Welding should precede coating. If already coated, follow instructions in American Welding Society, ANSI Standard Z49.1 Safety in Welding and Cutting.

**APPLICATION MIXING** No mixing necessary for cartridge kit. Simply attach static mixing tube and apply. Ensure that material is mixed thoroughly as it exits the mixing tube, (should be a consistent gray color).

**APPLY** Apply by, applicator (provided with kit), putty knife or trowel or as required for proper application. NOTE: Area to be repaired should not exceed 50% of the applicator width, (2" if using the applicator provided with the Kit).

**INSPECTION** Check for desired dry film thickness, (relevant standards: ASTM D7019 / SSPC PA 2), and for pinholes, holidays, bare areas, (relevant standards: ASTM D5162 / NACE SP0188), etc. before placing in operating service.

**CLOTHING** **Refer to the Safety Data Sheet (SDS) for complete safety information.**

**CONFINED SPACES** **Refer to the Safety Data Sheet (SDS) for complete safety information.**

## SAFETY INFORMATION

**THIS PRODUCT CONTAINS EPOXY-NOVOLAC 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 spray mists. Wear a properly fitted appropriate respirator during application and until all vapors and spray 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 AND TANKS 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!**

## 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.

PUBLISHED TECHNICAL DATA AND INSTRUCTIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  
CONTACT YOUR CORCHEM® REPRESENTATIVE FOR CURRENT TECHNICAL DATA AND INSTRUCTIONS.

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