

# CHEMFILLER FC™

## EPOXY JOINT FILLER

DCC Master Format™ 07 91 00

COMMERCIAL INDUSTRIAL INSTITUTIONAL RESIDENTIAL

### PRODUCT DESCRIPTION

CHEM-FILLER™ FC is a two-component epoxy gel crack treatment and repair system that is VOC-free, 100% solids (solvent-free), and odorless. The product is easy to use and can be easily applied to horizontal and vertical surfaces. CHEM-FILLER™ FC offers a short working time and cures very quickly, allowing the application of base coat or primer within minutes of applying CRACK FILLER EPOXY GEL. This product has superior mechanical and chemical properties suitable for commercial and industrial applications. The formulation is based on a high-performance cycloaliphatic polyamine technology with exceptional properties.

### APPLICATIONS:

CHEM-FILLERFC™ is suitable for the most demanding applications:

- Industrial Uses
- Manufacturing plants and warehouses
- Shopping centers
- Office buildings
- Retail stores
- Parking garages
- Food/beverage processing and preparation plants
- Public facilities, including hospitals and schools
- Pharmaceutical
- Other commercial uses
- Or any other location requiring treatment

### ADVANTAGES:

- Environmentally friendly (100% solids, VOC-free and solvent-free)
- Potential for LEED eligibility
- Odorless
- Compatible with Epoxies and Polyaspartics
- Can be used on vertical surfaces
- 24-hour recovery window
- Maintains its thixotropy even during exothermic reaction
- Easy application with long pot life and working time
- Fast curing

### COLOURS

Grey or Clear



### PACKAGING

The CHEM-FILLER FC™ consists of Part A Resin and Part B Hardener.

	Part A	Part B
2 Gallons Kit	1 Gallon	1 Gallon

### TESTING

Not all surfaces are the same. It is recommended that a sample area be created before the project begins. The test should be performed on site, using the method suggested by your CHEMTEC™ representative to ensure proper performance.

A sample area should also be performed on existing coatings to determine if contaminants exist or if delamination will occur.

### TYPICAL PRODUCT DATA

VOLUMETRIC RATIO:	1:1
SOLIDS CONTENT:	100%
**COVERAGE:	333ft <sup>2</sup> /L.
VISCOSITY:	GEL
ELONGATION:	40-55%
APPLICATION TEMPERATURE:	MIN 10°C (50°F) MAX 30°C (86°F)
THINNER:	NOT REQUIRED
WORKING TIME:	20-25 MINUTES @ 22°C (71°F) and 55% rel. humidity
RECOAT:	24 HOURS @ 22°C (71°F) and 55% rel. humidity
DRY TO THE TOUCH:	*2-3 HOURS @ 22°C (71°F) and 55% rel. humidity.
SHELF LIFE:	12 MONTHS in original, unopened packaging under normal storage conditions.
USDA / FDA & ACIA:	MEETS THE REQUIREMENTS

\*Approximate drying time will vary depending on ambient temperature, substrate temperature, relative humidity, thickness, width and application method, thickness and width, and application method.

# CHEMFILLER FC™

EPOXY JOINT FILLER

DCC Master Format™ 07 91 00

COMMERCIAL INDUSTRIAL INSTITUTIONAL RESIDENTIAL

**CHEMTEC**  
EPOXY COATINGS

## CONCRETE PREPARATION

Prior to application of the coating, the concrete must be:

Concrete must be clean, dry and free of grease, oil, laitance, paint, curing compounds or any other contaminants that may prevent proper adhesion. Concrete must be cured at least 28 days before applying the coating system.

Proper testing procedures should be performed for soil acidity and water vapor transmission. Take a pH reading to ensure that the concrete is neutral (a reading between 5 and 9 is acceptable). Use a calcium chloride test to measure water vapor transmission or any other CHEMTEC™ approved method. Readings of 3.5 lbs/1000 ft<sup>2</sup> for a period of 24 hours or less are acceptable for coating applications. Higher readings should receive a moisture mitigation system.

The surface must be mechanically prepared in accordance with CSP2-4. Ensure that the surface is free of contaminants and that the pores are open to allow the product to bind.


If the product is applied over an existing epoxy flooring system that has cured for more than 24 hours, it will need to be sanded with an appropriate floor machine. Mechanical bonding to a sanded surface is required and the pores of the existing coating must be open for better adhesion. Vacuum the dust and properly wipe the surface before applying CHEM-FILLER FC™. Perform adhesion tests when in doubt about surface preparation

## MIXING

The ratio of CHEMFILLER FC™ is 1 to 1. In other words, one part A (resin) to one part B (hardener).

Mix CHEM-FILLER FC™ with a drill and mixing paddle on low speed for 3 minutes.

**Note:** if using a drill and blender, use a low speed (not exceeding 300 rpm) to avoid air entrapment.

 **CHEM-FILLER FC™** is designed to be poured immediately onto the floor. Leaving the product mixed in the container will significantly reduce work time. Once poured on the ground, 30 minutes of working time can generally be expected depending on conditions.

## \*\*APPLICATION INSTRUCTIONS

CHEMFILLER FC™ is applied as a trowel and/or spatula fill system. CHEM-FILLER™ FC be applied in thin layers, up to 1/4" (6mm). For estimation purposes, estimate 333 linear feet per liter at a 1/8" x 1/8" (3mm x 3mm) application.

Always apply at decreasing temperatures. Concrete is porous and traps air. During rising temperatures (usually in the morning), the air expands and can cause the coating to outgas. It is safer to apply coatings in the late afternoon, especially for exterior applications.

1. Optimum room temperature should be between 10 and 30oC (50 & 86°F) during application.
2. Mix the CHEMFILLER FC™ using the mixing instructions stated above.

Once the surface is properly prepared, apply CHEM-FILLER FC™ with a trowel or spatula.

CHEM-FILLER FC™ is an epoxy gel designed to be applied in thick layers to fill gaps, holes, cavities, cracks, cold joints, and control joints, in concrete floors or walls.

Appropriate tests should be performed prior to application.

## RECOATING

When applying a coating, wait until CHEM-FILLER™ FC is completely dry before installing an epoxy or polyaspartic primer or basecoat.

Do not recoat without sanding if the product has been applied for more than 24 hours. The floor surface should be sanded/grinded to a uniform matte finish. There should be no sheen on the previous coating after vacuuming and before applying the next coat..

## CLEANING & DISPOSAL

The cured product can be disposed of without restriction. Excess liquid materials A and B should be mixed together and allowed to dry, then disposed of in the normal responsible manner. Product should be disposed of in accordance with municipal, state and/or federal regulations.

Uncured material can be removed with a suitable solvent. Follow the solvent manufacturer's instructions for use and warnings.

# CHEMFILLER FC™

EPOXY JOINT FILLER

DCC Master Format™ 07 91 00

COMMERCIAL INDUSTRIAL INSTITUTIONAL RESIDENTIAL

**CHEMTEC**  
EPOXY COATINGS

## PRODUCT LIMITATIONS

Concrete slabs at ground level emit invisible moisture vapor. The allowable moisture emissions for concrete are 3 lb. / 1,000 PC over a 24-hour period (<4%) based on a calcium chloride test. In addition, a relative humidity (RH) test can be performed to test for moisture vapor. RH test results must be less than 85% per ASTM F2170.

If the humidity is above this level, blistering and delamination of the coating may occur. A calcium chloride or relative humidity test should be performed to determine the moisture levels of the concrete. If moisture levels exceed 85% for the RH test or 3 lbs. for calcium chloride, a concrete moisture vapor control system should be used prior to applying the coating system.

CHEMFILLER FC™ requires a dry substrate. This product should not be applied to concrete substrates with high levels of moisture / water content. Although this product can be applied in a wide range of thicknesses, limitations may apply when considering cure time. The thicker the film, the faster the cure time.

Not suitable for outdoor applications.

Temperature will also have an impact on cure time. Curing time can extend considerably at very low temperatures. Keeping the product at room temperature will make application easier and drying times shorter.

CHEMTEC™ GUARANTEES THE QUALITY OF ITS PRODUCTS. HOWEVER, CHEMTEC™ CANNOT GUARANTEE FINAL RESULTS SINCE CHEMTEC™ HAS NO CONTROL OVER SURFACE PREPARATION, OPERATING CONDITIONS OR APPLICATION METHODS. CUSTOMERS ARE SOLELY RESPONSIBLE FOR TESTING CHEMTEC™ PRODUCTS TO DETERMINE IF THEY PERFORM AS HOPED. CONTACT YOUR CHEMTEC™ REPRESENTATIVE FOR MORE INFORMATION REGARDING THE LIMITATIONS OF THIS PRODUCT.

Please contact your CHEMTEC™ representative for more details.

**Annotations:** Coating systems are susceptible to cracking if the concrete moves or separates under the coating. Therefore, the treatment of joints and cracks should be reviewed prior to coating application. As a general rule, control joints (saw cuts) and random cracks should first be sawed or chiseled and then filled with

CHEM-FILLER™ or CHEM-FILLER FC™. Construction/cold joints (two slabs that meet and therefore move) must be treated. Once the coating is applied and cured, saw the coating over the construction joints and apply an elastomeric caulk.

## WARRANTY

CHEMTEC™ COATING products are warranted for one year from the date of application. Please refer to the CHEMTEC™ material limited warranty for more details.

## SAFETY WARNING

Avoid contact with the skin. Some people may be allergic to epoxy resin. Protective gloves, adequate ventilation and protective clothing are recommended.

For more information consult the CHEMFILLER FC™ MSDS.

**– FOR INDUSTRIAL USE ONLY –**  
**– KEEP OUT OF REACH OF CHILDREN –**

The information presented is, we believe, is true, accurate and in compliance; but it is presented with all reservations and without warranties on the part of CHEMTEC™ COATINGS Inc. It is therefore the responsibility of the user to thoroughly verify this data and validate this information and the suitability of this product for the desired use. CHEMTEC™ COATINGS Inc. will not be held responsible for the use of this product in any system.