

**CHEM 3000 FC**  
**Ultra Low-Viscosity Aromatic Polyurethane Repair System**

**PRODUCT DESCRIPTION**

The CHEM 3000 FC is a two-component aromatic polyurethane crack repair system providing ultra-fast curing. This product has been designed to repair concrete cracks and small holes on horizontal surfaces. It can also be used for below-grade repairs and at very low temperature levels.

**USES**

The CHEM 3000 FC is suited for several applications:

- Repairing cracks in concrete
- Filling small holes
- Repair below-grade structures
- Cold temperature applications including fridges and freezers

**ADVANTAGES**

- Extremely fast curing, can be grinded after 15-20 minutes
- Indoor/outdoor applications
- Cures at very low temperature
- Low viscosity allows for optimal concrete penetration; minimal surface preparation is required
- Possible to mix with silica sand, quartz and fumed silica to build up viscosity

**APPLICATION DATA**

Mix Ratio	1A:1B	
Packaging	2 gallon kits	
Color	Milky/Yellowish	
Viscosity	Very low	
Shelf Life	Six months, in original unopened factory pails under normal storage conditions.	
Application temp.	Min sub 0°C, Max 30°C	
Cure Time		
Working time	2-3 min	22°C and 55% rel. hum
Hard dry	15-20 min	22°C and 55% rel. hum
Solids Content	60%	

**SURFACE PREPARATION**

Concrete should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Concrete should be cured at least 28 days before applying the coating system.

Proper testing procedures should be practiced with regards to soil acidity and moisture vapor transmission. Take a pH reading to ensure concrete is neutral (a reading between 5 and 9 is acceptable). Use a calcium chloride test to measure moisture vapor transmission. Readings of 3.5 lbs./1000 sq. ft. during a 24-hour period or less are acceptable for applying coatings. Higher results should receive a moisture mitigation system.

Surface must be prepared mechanically in line with CSP-3-4. Ensure the surface is free of contaminants, and the pores are open to allow the product to bound.

**Floor Coating: CHEM 3000 FC**

Last update: January 2019

**MIXING**

Mix one part of A and one part of B together in a separate container. The surface must be clean and free of any outside particle. Mix thoroughly using a drill. Mix only the necessary quantity to be used according to the specified pot life / working time. If mixed with aggregates, use a mixing ratio that does not exceed 3:1 (aggregates to CHEM 3000 FC).

**APPLICATION**

This product will cure at sub-zero temperatures. The product has been especially designed to adhere on porous concrete surfaces. The product simply needs to be poured in repair areas. Versions with aggregates can be applied using a trowel and/or a scrapper. Proper testing should be conducted prior application. Contact a Chemtec sales representative prior using this product.

**STORAGE**

Humidity will affect the performance of the product. If not properly stored, humidity trapped in the container can create bubbles during application. Make sure the cover is always properly closed and avoid exposing the product to the ambient air after usage.

**RECOAT**

For best results, always prepare the CHEMTEC 3000 FC with a diamond grinding tool to achieve a CSP-2-3 prior applying a base coat. Recoat with a Chemtec polyaspartic base coat within 60 minutes after the application of the CHEM 3000 FC. There should be

no gloss on the CHEM 3000 FR after vacuuming and before applying the next coat.

**CLEAN UP**

Cured product may be disposed of without restriction. Excess liquid A and B material should be mixed together and allowed to cure, then disposed of in the normal manner. Product may be disposed in accordance with provincial and federal regulations. Uncured material can be removed with proper solvent. Follow the solvent manufacturer instructions for use and warnings.

**LIMITATIONS**

Requires a dry substrate. This product should not be applied to concrete substrates that show high levels of moisture/humidity. Although this product may be applied in a wide range of thickness, limitations may apply when taking into consideration curing time. Moisture content of the substrate must be <4% prior to application. Temperature will also impact curing time. Curing time may extend significantly at very low temperature levels. Keeping the product stored at room temperature will make the application easier.

Stands behind the quality of its products. However, Chemtec cannot guarantee results since Chemtec has no control over surface preparation, operating conditions and application procedures. Clients are solely responsible to test Chemtec products to determine if they perform as expected. Contact Chemtec for further information regarding the limitations of this product.

**AVAILABLE COLORS****Milky/Yellowish****Refer to the most recent Material Safety Data Sheet prior using this product**

CHEMTEC COATING

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