

DESCRIPTION

ECE-FC-CF is a fast cure, two component, sag resistant structural epoxy system designed to repair vertical or horizontal cracks. It has excellent adhesion to concrete, masonry, wood, metal and plastics. This system has been approved by the Canadian Food Inspection Agency (CFIA).

PRIMARY APPLICATIONS

- Pharmaceutical production
- Assembly areas
- Classrooms
- Refineries
- Waste treatment plants
- Laboratories
- Light and heavy manufacturing areas
- Mechanical rooms
- Indoor parking
- etc.

ADVANTAGES

- Contains no solvent with a very low VOC content, allowing for interior applications without harmful odors
- Ideal for easy cleaning of the wall floor junction
- Superior compression force
- Can be used on large vertical surfaces
- Waterproof and seamless
- Dense surface resistant to bacteria and moisture and easy to clean
- Excellent adhesive properties, allowing for application on a wide variety of substrates
- May apply several layers on itself with excellent adhesion

ELITE COATINGS CANADA INC.

9805 Horton Road SW, Calgary, Alberta, Canada T2V 2X5

Tel: +1 (403) 397-6355 | **Email:** info@elitecoatings.ca | **Website:** <https://elitecoatings.ca>

ECE-FC-CF: Technical Data Sheet: April 25, 2024

TECHNICAL DATA

Packaging ECE-FC-CF (A/B) litres / gal us			Color	
3.78 / 1	11.34 / 3	56.7 / 15	Part A	Part B
Yield for cracks 1/8 in x 1/8 in			Creamy White	Creamy Yellow
~ 1100 linear feet per gallon			Shelf Life	
Yield for junction between wall and floor with 1 in radius			12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.	
~ 38 linear feet per gallon				
Mix Ratio by volume				
A : B = 2 : 1				
*Please note that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.				
Pot life (150g)	VOC (g/litre)	Density (kg/litre)		
10-15 minutes 25°C	–	Part A	Part B	Mixture
Solids by weight %	Recommended Thinner	1.15 – 1.17	1.05 – 1.06	1.12 – 1.13
100%	xylene			
Substrate Temperature		10°C	20°C	30°C
Waiting Time / Overcoatability (min / max)		–	–	–
Curing Details	Foot traffic	–	–	–
	Light traffic	–	–	–
	Full cure and chemical resistance	–	–	–
*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.				

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PROPERTIES @ 23°C (73°F) 50% R.H.

Bond Resistance (psi) ASTM D4541		Permeability (%) ASTM D570	
-		-	
Hardness (Shore D) ASTM D2240		Tensile Strength (psi) ASTM D638	
-		6500-7500	
Compressive Strength ASTM D695		Elongation (%) ASTM D638	
8000-9000		2 %	
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles / 1000 g)		Viscosity @ 25°C (cps)	
-			
		Part A	Part B
		110000-120000	280000-300000

SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, waxes, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in²) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in²).

MIXING

The products must be conditioned at a temperature between 18 ° C (65 ° F) and 30 ° C (86 ° F).

Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. Immediately apply on prepared surface. As the pot life is **very** limited, prepare amount of desired product as required in order to avoid any loss.

APPLICATION

APPLICATION: For cracks, saw cuts, small holes, masonry block joints etc.

Using a trowel, spatula or other suitable equipment evenly spread the crack filler.

APPLICATION: floor wall junction (ceiling wall junction or corner wall)

Using a spatula spread a quantity of material (bead) and shape the bead with a round trowel spoon at the floor wall junction. Do not leave any excess material to avoid sanding (very difficult to sand).

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CLEANING

Clean all application equipment with your preferred cleaner. Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.

RESTRICTIONS

- Do not apply at temperatures below 10°C / 50°F or above 30°C / 86°F
- The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%
- Substrate temperature must be 3°C (5.5°F) above dew point measured
- Humidity content of substrate must be <4% when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during the application
- The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure)
- Protect the coating from all sources of moisture for a period of 48 hours
- Surface may discolor in areas exposed to regular ultraviolet light

HEALTH & SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to Elite Coatings Canada Inc. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. Elite Coatings Canada Inc. assumes no legal responsibility for the results obtained in such cases. Elite Coatings Canada Inc. assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.

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