



PREMIUM COATING

### PRODUCT DESCRIPTION

**CSE - FCE A and B** is a fast curing 100% solid, two-component epoxy coating, with a recoat time between 1-3 hours. It can be used to restore deteriorated floors or protect new floors. **CSE - FCE A and B** provides excellent physical and chemical resistance. **CSE - FCE A and B** is durable, while maintaining its aesthetics. This system has been approved by the Canadian Food Inspection Agency (CFIA)

### APPLICATIONS

**CSE - FCE A and B** is formulated as a high solids system for classrooms, laboratories, mechanical rooms, areas of light manufacturing, where cleanliness and easy maintenance are required

### ADVANTAGES

- Low odour, Solvent-free
- 100% solids with an esthetic high gloss finish
- Superior mechanical resistance
- Good chemical and physical resistance
- Easy to clean, bacteria and moisture resistant surface

### PACKAGING

**CSE - FCE A and B** is packaged in factory proportioned packaging for easy handling and mixing.

**Resin (R): 2.0 US Gal**

**Hardener (H): 1.0 US Gal**

### STORAGE

All CSE components should be stored in dry, temperature controlled areas between 12-28°C. Do not expose to freezing or excessive high heat

# CSE - FCE A and B

### TECHNICAL DATA

Percent solids		100%
VOC content		-
Pot life (3 Gallons) @ 25°C		20-30 minutes
Suggested number of coats		Two
Mixing ratio by volume		2:1
Compressive Strength	ASTM D695	6800 psi
Bond Resistance	ASTM D4541	268 psi
Tensile Strength	ASTM D638	5500 psi
Color(s)	Sealchem standard colors	
	▪ WHITE	▪ GREY
	▪ BEIGE	▪ BLACK
	▪ CLEAR	
Recoat time (min/max)	2 hours/3 hours	
Shelf life	12 months in unopened factory filled container. Store in dry area between 12-28°C.	

PRIOR TO USE APPLICATOR MUST ALWAYS READ AND FOLLOW WARNINGS AND INSTRUCTIONS ON SEALCHEM INDUSTRIES MOST UP TO DATE PRODUCT TECHNICAL DATA SHEETS, PRODUCT LABELS AND MATERIAL SAFETY DATA SHEETS WHICH ARE AVAILABLE UPON REQUEST BY CALLING TECHNICAL SUPPORT DEPARTMENT.

### SURFACE PREPARATION

Surface must be clean, sound and dry. Prior to coating a CSE coating floor all trowel marks and surface imperfections must be removed to produce a smooth & uniform surface. Proper surface preparation is critical to ensure an adequate chemical bond to substrate. Substrate must be dry and free of all wax, grease, oils, fats, soil, contaminants, loose or foreign matter and laitance. Concrete should be cleaned and prepared using a shot blast machine or adequate grinding equipment to achieve a CSP-3 to CSP-4 profile as per ICRI guidelines. Compressive strength of concrete should be at least 3,500 psi (24 Mpa) @ 28 days and at least 215 psi (1.5 Mpa) in tension at time of product application.



# CSE - FCE A and B

## PRIMING

Priming for concrete substrate is required. Prime with **CSE - FCE A and B** or other compatible CSE Coatings inc. primers. Allow primer to cure until tack-free before applying subsequent coat. Prior to applying subsequent coat, verify and ensure that the primer is free of any pinholes, bubbles, open porous areas and that the entire surface is uniformly coated. Verify moisture vapour transmission levels in concrete substrates prior to priming. A polymer moisture vapour barrier system may be required for substrates affected by elevated transmission rates. Consult CSE Technical Services for further information.

## MIXING

**CSE - FCE A and B** is supplied in factory proportioned quantities, greatly reducing the risk of applicator error during mixing.

Step 1 - Mechanically premix PART A (resin) with an appropriate slow speed drill equipped with a Jiffy Mixer, for 1 minute.

Step 2 - Slowly empty entire content of PART B into container holding PART A and continue to mix slowly for 3 minutes until uniform consistency in texture and color is achieved. Avoid unnecessary entrapment of air during mixing. Make sure to scrape walls and bottom of container with straight edged trowel at least once to ensure homogeneous mix. Make sure to empty **ALL** contents of PART B into PART A to avoid system weakening or incomplete curing.

**DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED WITHIN WORKING TIME LIMITS.**

## POT LIFE

After mixing, **CSE - FCE A and B** has a pot life of approximately 20-30 minutes at 25°C. Pot life depends on ambient and surface conditions.

## APPLICATION

**CSE - FCE A and B** should be applied at temperatures between 15-28°C and humidity below

80%. **CSE - FCE A and B** is applied with a rubber squeegee and back rolled with a 10mm lint-free nap roller (on smooth surfaces) to remove squeegee lines and smooth out coating. Additional coats may be applied when surface is tack-free (roughly 2 hours). Do not exceed hours for recoating. By exceeding this recoat time limit, the entire surface must be lightly sanded to achieve desired profile for a proper mechanical bond. Clean up all dust and debris created by aforementioned sanding prior to applying subsequent coat.

## CURING

**CSE - FCE A and B** is tack-free in approximately 2 hours at 25°C. Coated area may be put back into service after 16 hours. Curing is complete and full product characteristics are achieved after 10 days. Curing times dependent upon ambient & surface conditions

## PRECAUTIONS & LIMITATIONS

Prior to application, measure and confirm Substrate Moisture Content, Ambient and Surface temperatures and Dew Point.

**Substrate Moisture:** Moisture within substrate must be  $\leq 4\%$  by mass as measured by Tramex® type concrete moisture meter on mechanically prepared surface.

**Dew Point:** AVOID CONDENSATION. The substrate must be at least 3 °C above Dew Point to reduce risk of condensation. Condensation may lead to failure in adhesion. Avoid situations where substrate temperature is considerably lower than ambient temperature.

Do not add thinners or solvents to mix. Do not add water. Dispose of waste materials in accordance with government regulations. The use of safety glasses and protective gloves is required. In case of contact, flush areas with abundance of water for 20 minutes and seek medical assistance. Wash skin with soap and water. Use only in well ventilated areas.