



Description

UCTCF-5000 is a two parts, high penetration, fast setting, hybrid polyurea for repairing and re-building damaged concrete. The product is a 1:1 ratio, easy to mix system that is 98 % solids and VOC compliant. The **UCTCF-5000** can be used to set anchor bolts, repair damaged control joints, fill spalling, and rebuild vertical curbing and steps. Sand or gravel can be added to extend the volume of the material and acts as filler for repairing large spalls, holes and cracks.

Primary applications

- ✓ Commercial freezer repairs
- ✓ Aircraft hangar floors
- ✓ Low temperature equipment
- ✓ Maintenance facility floors
- ✓ Industrial shop floors
- ✓ Car washes or wash bays
- ✓ Forming/ rebuilding stairs and steps
- ✓ Leveling and grade matching
- ✓ Bridge/ street repairs
- ✓ Concrete polishing and other coating applications

Advantages

- ✓ Application temperature between -5 C to 38 C
- ✓ Product cures in 10 minutes @ 22 C with excellent adhesion
- ✓ Self-leveling and self-priming
- ✓ Ready to service in 10 to 20 minutes
- ✓ Easy to mix 1:1 ratio by volume
- ✓ Highly chemical resistant
- ✓ Excellent for industrial floor repairs subject to forklift traffic and harsh conditions



TECHNICAL DATA

Packaging litres / gal us		Color		
7.56 / 2		Part A	Part B	Mixture
Mix Ratio by volume		Black	Amber	Black / Grey
A : B = 1 : 1		Shelf Life		
Mix Ratio by weight		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.		
A : B = 100 : 118		Density (kg/litre)		
Pot Life (40 g)	Cure Time	Part A	Part B	Mixture
2 – 3 minutes	10 – 15 minutes	0.94	1.12	1.11
VOC (g/litre)	Recommended Thinner	Solids by weight %		
397	DO NOT DILUTE!	Part A	Part B	Mixture
Viscosity @ 25°C (cps)	Part A	Part B	Part A	Part B
	15 -30	15 - 30	100	100
Foot Traffic	10 minutes			
Light Traffic	30 minutes			

**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.*

PROPERTIES @ 23°C (73°F) 50% R.H.

Adhesion (concrete-primer) ASTM D4541	Water Absorption (%) ASTM D570
-	-
Hardness (Shore D) ASTM D2240	Tensile Strength (psi) ASTM D638
68-72	4500 - 4800
Compressive Strength ASTM D695	Elongation at break (%) ASTM D638
5600 psi	6 - 8

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. Open the cracks with a crack-dry chaser diamond blade and clean it thoroughly to remove any debris or dust. 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

Mix each component separately. Pour component B into component A using the proper mixing ratio. Mix together both components for not more than 30 seconds. Only prepare quantity that may be applied during pot life.

APPLICATION

Pour the **UCTCF-5000** into the cracks and allow material to overflow slightly. Once hardened, grind the surplus with a grinder equipped with a diamond wheel.

CLEANING

Clean all application equipment with the recommended cleaner (SCT-0001). 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 5 ° C / 42 ° 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

HEALTH AND 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 CTM Adhesives 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. CTM Adhesives Inc. assumes no legal responsibility for the results obtained in such cases. CTM Adhesives 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.
