

UNICHEM EPOXY CRACK FILLER

SOLVENT FREE EPOXY BONDING AND CRACK FILLING ADHESIVE

UCA-FC-09-0722

DESCRIPTION

UNICHEM EPOXY CRACK FILLER is a two component sag resistant epoxy system that shows excellent adhesion to concrete, masonry, wood, metal. It is moisture tolerant and meets the requirement of ASTM C881.

USES

- ❖ Bonding hardened concrete to hardened concrete. Designed to repair vertical or horizontal cracks
- ❖ Bonding wood, metals and masonry.
- ❖ Bonding steel to hardened concrete

ADVANTAGES

- Adhesion: Excellent adhesive for bonding concrete, steel or wood.
- Durability: Enhanced adhesion of ensures longer durability.
- Chemical Resistance: Resistant to a wide range of acids, alkalis and industrial chemicals.
- Moisture Tolerant: Cured surface is impermeable to water.
- No Shrinkage
- Quality: Factory quality controlled pre-weighed quantities reduces site errors.

STANDARDS

UNICHEM EPOXY CRACK FILLER meets the requirements of ASTM C881, Types 1 and 4, Grade 3, Class B, C, D, E and F

TYPICAL PROPERTIES

PROPERTY	RESULT
COLOUR	BASE – LIGHT GREY
	HARDENER – DARK BROWN
POT LIFE	30 TO 35 MINUTES (25 °C)
INITIAL CURE*	12 hours *Actual timings may vary depending on humidity and temperature. Timings mentioned are on the basis of 25°C & 50% RH
PACKAGING	2.5 Kg kit
COVERAGE*	4 – 4.5 m ² at 0.5 mm thick. *The exact coverage will depend upon the porosity, smoothness of surface, wastage and application method
MIX RATIO BY WEIGHT BY VOLUME	2:1 3:2
MINIMUM APPLICATION TEMPERATURE	5 °C
FULL CURE	7 DAYS
MECHANICAL PROPERTIES*	
COMPRESSIVE STRENGTH	80 - 85 MPa (ASTM C579)
TENSILE STRENGTH	50 – 55 MPa (ASTM C307)
ELONGATION AT BREAK	3 %

The values given above for typical properties are average figures achieved in laboratory tests at 20-25°C. Actual values obtained on site may show minor variations from those quoted.

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CHEMICAL RESISTANCE

It has excellent resistance to most aqueous systems, sewage, urine, fresh water, sea water, alkalis, diluted acids, mineral oils, vegetable oils & fats, ammonia and formaldehyde

INSTRUCTIONS FOR USE

SURFACE PREPARATION

Allow new concrete to cure for a minimum of 28 days. Substrates which require patching must be free of dirt, oil, grease and other contaminants and loose or unsound materials. Remove all dirt, grease, oil, salt and contaminants by using suitable degreaser. Use a wire brush to remove loose or unsound materials before proceeding. Do not apply to wet substrates.

Note: UNICHEM EPOXY CRACK FILLER should not be used in bonding old concrete to new freshly laid concrete.

MIXING

Thoroughly mix each component separately. Measure 3 parts (by volume) of base and 2 parts (by volume) of hardener. Combine together and mix for at least three minutes until uniform in color.

Mix ratio by weight is 2:1 (base : hardener)
Mix only what can be used in the pot life period.

APPLICATION

The mixed products can be applied by a trowel or putty knife. Apply on the substrates at approximately 0.5 mm thick. Allow to cure undisturbed. Wait at least 12 hours* after application before proceeding with subsequent works.

*Actual timings may vary depending on humidity and temperature. Timings mentioned are on the basis of 25°C & 50% RH

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CLEANING

Tools and equipment can be cleaned while still wet using UNICHEM THINNER. Hardened materials can be removed through mechanical means.

STORAGE & SHELF LIFE

Minimum 1 year in original sealed containers at 25°C. The product should be kept in a cool and well ventilated place, protected from heat and direct sunlight. Containers must be tightly closed.

Stir the contents before use.

SAFETY PRECAUTIONS

Keep away from flame and sparks. Use protective gloves and safety glasses. Contact could cause dermatitis. Protect eyes & skin. In case of skin contact, wash with soap and water. If irritation persists, consult physician. Do not breathe vapors. Do not swallow. If swallowed, seek medical attention immediately. DO NOT INDUCE VOMITING.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.