

# C4: MULTI-PATCH 3H TECHNICAL DATA SHEET

## DESCRIPTION

C4 is a 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.

## ADVANTAGES

- Easy to apply and clean
- Suitable for interior application
- VOC complaint
- Very low odor
- Excellent adhesion to concrete
- Coatings can be applied 120 minutes following application

## TECHNICAL DATA

<b>PACKAGING</b>	1 US gal kit (3.78 L)
<b>COLOR</b>	PART A: Clear PART B: Clear to amber
<b>MILEAGE PER GALLON</b>	Varies according to application
<b>SHELF LIFE</b>	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.
<b>MIX RATIO, BY VOLUME</b>	A:B = 2:1
<b>MIX RATIO, BY WEIGHT</b>	A:B = 100:41
<b>POT LIFE 16 OZ (454 G)</b>	15-25 minutes @ 77°F (25°C)
<b>VOC</b>	67.8 g/L

## PROPERTIES

@ 73°F (23°C) AND 50% R.H.

<b>SOLIDS CONTENT, BY WEIGHT</b>	100%
<b>DENSITY (KG/L)</b>	PART A: 1.12 kg/L PART B: 0.93 kg/L
<b>THINNER RECOMMENDED</b>	Xylene
<b>COATING WINDOW</b>	2-3 hours

\* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

	PART A	PART B	MIX
<b>VISCOSITY @ 77°F (25°C)</b>	150000-180000	280000-300000	150000-180000
<b>COMPRESSION RESISTANCE (PSI), ASTM D695</b>	13000-15000		
<b>TRACTION RESISTANCE (PSI), ASTM D638</b>	6500-7500		
<b>ELONGATION %, ASTM D638</b>	30		

\* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. \*

## SURFACE PREPARATION

### Old concrete

Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application.

### New concrete

The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch<sup>2</sup>). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.

## MIXING

Materials should be pre-conditioned to a minimum of 10°C prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

## APPLICATION

Apply mixed product on the prepared surface using a trowel or a putty knife.

## CLEANING

Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

## RESTRICTIONS

- Minimum/Maximum temperature of substrate: 50°F / 86°F (10°C / 30°C)
- Maximum relative humidity during application and curing: 85 %
- Substrate temperature must be 5.5°F (3°C) 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 application
- Avoid exterior use on substrates at ground level
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period
- Surface may discolor in areas exposed to regular ultraviolet light

## **HEALTH AND SAFETY**

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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**

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