

PUR-CR - PurEpoxy Urethane Crack Repair

DESCRIPTION

PUR CR - PurEpoxy Urethane Crack Repair is a two-component, low viscosity, and rapid curing urethane system developed for concrete crack and surface blemish repair that will self-level with appropriate application. This product exhibits strong adhesion to concrete and grinds easily once set. This product is offered in three versions to suit almost any application environment.

ADVANTAGES

- Very low odor during application, suitable for interior application
- Lower odor when grinding/sanding
- Rapid hardening, rapid turnaround
- Impact resistance
- May be blended with a variety of aggregates for different applications
- Resistant to many common chemicals

RECOMMENDED USES

- Repair of concrete substrates under a variety of floor coatings
- Healthcare, institutional applications
- Education
- Aircraft hangar floors
- Automotive facilities
- Maintenance facilities
- Shop floors

PACKAGING	2 US gal (2x1) (7.56L) 10 US Gal (2x5) (37.85L)
SHELF LIFE	12 months in original unopened factory sealed container. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.
MIX RATIO, BY VOLUME	1A : 1B
VOC CONTENT	See individual formulation
SOLIDS CONTENT, BY VOLUME	See Individual formulation

PROPERTIES

@ 73°F (23°C) AND 50% RH.

PUR CR - PurEpoxy Urethane Crack Repair is available in three formulas with different cure times for any application, **Rapid Cure**, **Standard Cure**, and **Extended Cure**. Working, Tack Free, Time to Grind times are approximate and based on a substrate, air and product temperature of 73°F (23°C).

Formulation	Working Time	Tack Free Time	Time to Grind	Solids %	VOC g/L
Rapid Cure	~2 - 4 Minutes	~8 Minutes	~12 minutes	97.5%	26.27
Standard Cure	~3 - 5 minutes	~12 minutes	~25 minutes	92.5%	65.23
Extended Cure	~4 - 6 minutes	~15 minutes	~35 minutes	90.0	78.1

Higher or lower temperatures and relative humidity will affect the cure and working times.

SURFACE PREPARATION

Concrete substrates should be cured for a minimum of 30 days and have a minimum compressive strength of 3,500 psi. Surfaces must be clean, sound, solid and properly prepared substrate. Remove all surface contamination. Prepared surface must be clean and dust free prior to application.

Preparation method should produce a uniform surface profile of CSP 3-4 (ICRI Guide 310.2R).

Do not apply to wet or damp substrates. Test for concrete moisture before application

MIXING

Precondition all components to ambient temperatures. Ensure all surface preparation, tools, etc. are ready. This product has a very short pot life and working time. Do not mix more material than can be applied within the available time.

In clean mixing pail, mix equal parts (1A : 1B) resin & hardener. If adding aggregate, add to Part A Resin first, then add Part B Hardener.

Mechanically mix only, do not mix by hand. Using a Jiffy/Jiffler, or similar type mixing attachment and slow-speed drill, slowly mix the components being careful not to introduce excessive air.

Clear: Mix A & B components for no more than 30 seconds. Ensure all material is scraped by side wall and bottom of mixing container. Apply material to floor immediately after mixing. Any delay will result in exothermic (heat) reaction.

APPLICATION

PurEpoxy Urethane Crack Repair may be applied neat, or mixed with any clean, dry aggregate to extend product and allow for filling various size voids and cracks. Sand, fumed silica (M5 Cab-O-Sil or equal,) clean concrete grinding waste, may be used to create a mix suitable for the application. Avoid applications with excessive volume (>1" thick) as excessive exothermic heat may develop. Add filler/aggregate to A component before adding B component. Have all tools ready and preparation complete before mixing. This product has a very short pot life and working time.

Pour directly into open cracks. Small cracks may require prefill with sand or concrete grinding to keep material from running through. Large cracks may require appropriate size foam backer rod. Mixed pastes may be applied with appropriate tool. May be sanded or ground within 12 to 35 minutes, depending on formulation used. (77°F/25°C Substrate temperatures are typically lower than ambient air temperature.)

CLEANING

Clean tools with appropriate solvent before curing. Cured material is very difficult to remove. Clean any spills and splashes before curing.

LIMITATIONS

Prior to application, measure, and confirm the ambient temperature and humidity conditions of air and substrate.

- Measure and confirm temperature of material. Precondition material for 24 hours prior to mixing.
- Do not allow material to freeze. Frozen material cannot be recovered and must be disposed of.
- Minimum/Maximum substrate temperature at application: 45°F (7.2°C) / 85°F (30°C).
- Maximum relative humidity during application and curing: 80%.
- Substrate must be 5°F (3°C) above dew point. Ensure conditions will not change during application and curing.
- Observe concrete moisture limitations stated in Concrete Moisture section.
- On porous, non-concrete substrates, ensure that there will be no moisture penetration on positive side.
- Protect from moisture and condensation for 24 hours after application.
- Do not apply to substrates exhibiting or tested positive for alkali silica reaction (ASR).
- Do not use propane or kerosene fueled heaters. Permanent discoloration of coating may occur.
- For professional use only by experienced personnel.
- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**

Prior to use of any product manufactured by APN Specialty Coatings, its subsidiaries or affiliates, the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at <https://purepoxy.com/> or by calling **920-231-0850**.

HEATH & SAFETY

Obtain and wear all required personal protection equipment (PPE.) 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.

WARRANTY STATEMENT

APN Specialty Coatings Inc. warrants that products delivered to purchasers are manufactured free from material defects and workmanship flaws in accordance with APN Specialty Coatings Inc. published specifications, provided installation follows APN Specialty Coatings Inc. recommended procedures. APN Specialty Coatings Inc. disclaims liability for any damages arising from improper product usage that deviates from its intended purpose or fails to comply with APN Specialty Coatings Inc. installation standards. APN Specialty Coatings Inc. assumes no liability regarding product installation and processing methods. This technical data information serves as general reference material only. Prior to any installation work, please reach out to your regional PurEpoxy Representative or contact our Technical Service team for professional guidance.