Floorguard Products

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POLYUREA
FAST-SET CRACK REPAIR

PRODUCT OVERVIEW

Achieve strong, reliable concrete repairs in record time with Polyurea Fast-Set Crack Repair. This high-performance pourable polyurea formula is engineered to penetrate deeply into cracks, creating an aggressive bond that restores structural integrity in seconds. Its rapid set time dramatically reduces downtime, allowing repairs to be completed quickly and efficiently.

Once cured, the material delivers exceptional strength. Designed for precision and durability, Polyurea Fast-Set Crack Repair fills and seals cracks from the inside out, providing a clean, professional finish with long-lasting results.

KEY FEATURES

- Ultra Fast-Setting
- High Bond Strength
- Deep Crack Penetration
- Rapid Return-to-Service
- Cold-Temp Workability & Cure
- Chemical Resistant
- Dynamic Repair Compatible
- Minimal Shrinkage

COLOR OPTIONS

UNTINTED

APPLICATION CONSIDERATIONS

- Higher ambient, product, and substrate temps will decrease working time and dry time
- Not UV stable
- Fast set product, mix small batches at a time
- Surface, cracks, divots, and joints shall be dry prior to application

PHYSICAL CHARACTERISTICS

SOLIDS CONTENT	100%
VOLUMETRIC MIX RATIO	1A:1B
POTLIFE	2-3 Minutes @ 75°F
TACK FREE	10-15 Minutes @ 75°F
HEAVY TRAFFIC	30 Mins @ 75°F
FULL CURE	24 Hours
APPLICATION TEMPERATURE	20°F - 90°F | RH <85%
COVERAGE RATE	307 lf/kit @ 1/8" x 1/8"
SHELF LIFE UNOPENED	6 Months
PACKAGING	2 Gal Kit

TECHNICAL PROPERTIES

TENSILE STRENGTH	ASTM D638	4,250 psi
TEAR STRENGTH	ASTM D2240	350 pli
ELONGATION	ASTM D638	5%
HARDNESS	ASTM D2240	Shore D 70
ADHESION	ASTM D4541	400 psi
IMPACT RESISTANCE DIRECT & REVERSE 50 IN/LBS	ASTM D5420	Pass

CHEMICAL RESISTANCE

Refer to Floorguard Products Chemical Resistance Chart.

REQUIREMENTS

- Substrate should have a compressive strength of 3,500 psi or higher.
- Substrate should have Moisture Vapor Emission Rate (MVER) of <3lbs per ASTM F1869 and Relative Humidity (RH) of <80% per ASTM F2170. If using Tramex concrete moisture meter, moisture content should be <4%.
- Substrate should have pH level between 6-9.
- Concrete must be structurally sound and free of all contaminants and bond breakers.
- Allow concrete to cure 28 days before installation.
- All repair areas must be profiled, clean and dry prior to application. If crack is damp, dry with heat torch. If primer is required, use MV2112.
- Remove all dust from cracks, divots, and spalls prior to application. If sand is used in cracks as prefill, the recommended depth is not greater than 75% of the total depth of the crack.
- For random crack and spall repairs, each side of the crack should be cut to create a minimum 2" deep vertical edge. Ensure that all joint edges are at 90° angles to grade with no V-grooving or feather edges.
- This material can be applied at environmental temperatures from 20°F - 135°F. The product needs to be conditioned at 75-80°F (25-27°C) prior to use.

PRECAUTIONS

- Refer to Safety Data Sheets (SDS) for safety precautions.
- Safety precautions must be followed during storage, handling, and use.
- Personal Protective Equipment (PPE) shall be worn at all times of the application process including but not limited to long sleeve shirts or disposable arm sleeves, safety glasses, nitrile gloves and properly fitted NIOSH respirators.
- All sources of ignition should be turned off and environment should have proper and adequate ventilation during application and curing process.
- Mixing area should be placed on or in close proximity to project. Area should be securely covered in plastic, cardboard, or tarp to protect from drips and spills.
- Stage materials, tools, and cleaning supplies in a shaded area, out of direct sunlight, within the mixing area prior to start of application process.
- Clean up mixing station and application tools after use with a VOC exempt solvent. Follow all legal, health, and safety precautions when handling or storing solvents and materials, particularly in confined spaces.
- Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations.

MIXING PROCEDURE

1. Pre-Shake both A&B components in their respective containers for 30 seconds to ensure all solids are in suspension.
2. Measure A&B components at a mix rate of 1A:1B by volume and mix for 30-60 seconds with a stir stick.

- Recommended to mix small batches at a time 4-8 ounces due to rapid set time

COVERAGE RATES & WORKING TIMES

- Crack Repair: 307 lf / Kit @ 1/8" x 1/8"

- 3 Minute Working Time @ 55°F
- 2 Minute Working Time @ 70°F
- 1 Minute Working Time @ 88°F

- Depth of repair and application method will cause coverage rate to vary.
- Ambient temps & humidity, product and surface temps, airflow and mix time affect overall working times

APPLICATION PROCEDURE

1. Pour mixed material into properly profiled cracks, divots and spalls.
   - Pour mixed material immediately
   - Slightly overfill repair area
   - If viscosity of material changes or working time has exceeded 2-3 minutes, discard mixed material and make new batch.
2. Use a putty knife or trowel to spread excess repair material into cracks.
   - Sand may be used either in mix to thicken material or as prefill into crack.
   - If adding sand to mixed material be mindful working time will be shortened.
3. Allow coating to dry : 15-20 Mins @ 55°F
   10-15 Mins @ 75°F
   5-10 Mins @ 88°F
   - Do not force dry
   - Grindable typically in 15 Mins @ 75°F

MAINTENANCE

Inspect the installed floor by spot-cleaning and repairing any damaged or cracked areas as needed. To extend the life of the flooring system, implementing a daily maintenance program is strongly recommended to help ensure the floor remains safe for its intended use.

TECHNICAL SUPPORT

For questions, please contact a Floorguard Products representative. Additional support materials are available from Floorguard Products. Visit floorguardproducts.com or reach out to us directly for further resources.

DISCLAIMER