LEGGARI

CRACK REPAIR

Technical Data Sheet

PRODUCT DESCRIPTION

Leggari Crack Repair is an extremely durable two-part Polyurethane crack repair product designed to fill small or large cracks in your concrete substrate. Use our Crack Repair before applying our Metallic Epoxy Floor System for a truly seamless floor. It's also a go-to product for repairing cracks on concrete to prevent further water damage, whether that be a patio, pool deck, or driveway. Our Crack Repair has superior bonding characteristics while maintaining flexibility for freeze/thaw cycles. It's a fast and easy application compared to other methods in the industry. It can be ground down flush within a couple of hours for coating applications; and can be installed in extreme temperatures (hot or cold).

ADVANTAGES

- Prevents water damage
- Flexible for freeze/thaw cycles
- Light foot traffic in 30 minutes
- Heavy traffic in 1 hour
- Self-Leveling – gel time 2-4 minutes at 70°F (21°C)
- Can grind in 30-90 minutes at 70°F (21°C)
- Self-mixing tip for easy use
- Superior Adhesion - tight bond to substrate without primer
- Low Viscosity - penetrates and levels on surfaces
- Tough - does not become brittle with age
- Easy to apply

COLOR AND PACKAGING

COLORS: Clear

PACKAGING: 1/2 gallon kit
2 gallon kit

APPLICATIONS

- Floors - cracked or spalled concrete
- Joints - broken corners or edges
- Before Coating - accepts most primers
- Patios
- Pool decks
- Driveways
- Any Concrete Substrate

SHELF LIFE

Leggari Crack Repair has a shelf life of six (6) months from date of manufacture in original, factory sealed containers

STORAGE

Store and ship this product in a clean, dry, low- humidity, shaded or covered environment at 60° to 90° F (15° to 32° C).

USAGE

USAGE CHART FOR 1/2 GALLON

Crack Size*	Usage in Linear Feet
1/16" wide x 1/2" deep crack	192' - 288'
1/8" wide x 1/2" deep crack	128' - 160'
1/4" wide x 1/2" deep crack	64' - 112'
1/2" wide x 1/2" deep crack	32' - 48'

USAGE CHART FOR 2 GALLON KIT

Crack Size*	Usage in Linear Feet
1/16" wide x 1/2" deep crack	768' - 1,152'
1/8" wide x 1/2" deep crack	512' - 640'
1/4" wide x 1/2" deep crack	256' -448'
1/2" wide x 1/2" deep crack	128' - 192'

*Crack size will vary depending on prep and sand depth. Once purchased, you will receive a video explaining the entire crack repair process.

PREPARATION

SURFACE PREPARATION

- The concrete surface being repaired must be fully cured, structurally sound, clean and dry.
- Concrete joints must be free of all foreign matter, including old joint filler, asphalt, tar, paint, wax, rust, membranes and curing/parting compounds. Contaminants present can result in poor adhesion. Apply product only if surface temperature is 5° F (3° C) above dew point to avoid application over damp surface.
- Remove any surface contaminants before applying Crack Repair by grinding, sweeping, wire brushing or another appropriate method.
- Leggari Crack Repair is intended for crack and spall repair. It is not for joint filling or over areas which may expand or contract significantly. Movement of the underlying concrete may cause cracking along the sides of the repair, or reflective cracks in a topcoat. Joints must be allowed freedom of movement.
- Crack Repair is not recommended for use on bare ground, dirt, grass or other non-structural surfaces.
- Before application, protect adjacent surfaces with tape or other kinds of protective barriers. Corner and edge repairs require damming the areas

with tape to keep the material in place during cure.
• Cracks in concrete may be deeper than they appear. The low viscosity of Crack Repair may allow material to fall through the surface, leaving gaps or holes visible. These gaps may be repaired by pushing sand into the gap and dispensing Crack Repair over it.
• Avoid very shallow or wide applications. It is recommended that that the crack to be filled is at least twice as deep as it is wide for optimal adhesion and performance.
• Saw cuts and cracks wider than 1/8" (3 mm) may be filled with backer rod of appropriate diameter before dispensing Crack Repair.
• When recoating, abrade the surface of the previously installed Crack Repair to ensure adhesion.
*For best results, refer to our full video tutorial and installation guidelines specific to your project prior to application.

PROCESSING

• If possible, precondition material to 70°F (21°C) before use.
• Do not dilute either resin or iso with any solvents.

APPLICATION

1. Pour equal parts of Part A and Part B into a mixing container
2. Mix thoroughly for 30-45 seconds
3. Immediately pour out of the mixing container in the prepared cracks

* Note: only mix as much as can be poured out within 60 seconds. Unless the cracks are wide, this is typically no more than 1/2 - 1 quart at a time; or as skill level allows.

CURING

Leggari Crack Repair is a rapid cure material that will be completely cured in approximately **5-10 minutes.** It is very sensitive to heat an dmoisture. Higher temperatures and/or high humidity may slightly accelerate the cure time. Low temperatures and/or humidity may slightly extend the cure time.

TYPICAL PROPERTIES @ 75°F (24°C)

Hardness, ASTM D-2240	70 ± 5 Shore D
Tensile Strength, ASTM D-412	2200 ± 220 psi | 15.17 ± 1.5MPa
Ultimate Elongation, ASTM D-412	4 ± 0.5%
Compressive Strength**, ASTM C-42	4750 psi | 32.76 MPa
Specific Gravity:	
Part A	1.139
Part B	0.967
Mixing Ratio by Weight	118:100
Mixing Ratio by Volume	1:1

Viscosity at 75°F (24°C)	80 seconds
Viscosity at 75°F (24°C), Brookfield:	
Part A	80 ± 20 cps
Part B	150 ± 30 cps
Pot Life @ 75°F (24°C)	80 seconds
Flash Point	>300°F | >148.89°C
Bond Strength to Concrete	Excellent
Thermal compatibility to Concrete	Good

**Compressive strength was checked on composite of Silica sand (12 mesh, 6.5 Moh's minimum hardness) and 18 to 20% of Leggari Crack Repair in a 4" X 8" cylinder.

CHEMICAL RESISTANCE (BASED ON ASTM D-814)

Leggari Crack Repair was unaffected by the following chemicals:

Acidic Chemicals
Acetic Acid, 1%
Acetic Acid, 10%
Hydrochloric Acid, 1%
Hydrochloric Acid, 10%
Sulfuric Acid, 1%
Sulfuric Acid, 10%

Basic Chemicals
Ammonium Hydroxide, 1%
Ammonium Hydroxide, 10%

Oils, Fuels and Other Chemicals
Hydraulic Oil
Motor Oil
Unleaded Gas (Regular)
Unleaded Gas (Premium)
Hexane
IPA
MIBK
Xylene

Equipment Cleanup:
Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Limitations:
Surfaces must be dry, clean and free of foreign matter. Should be used in well-ventilated areas due to its strong odor. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance. Crack Repair is for concrete crack repairs only. Refer to tutorial for more information.

Warning: This product contains Isocyanates.

DISCLAIMER

PRODUCT FAILURE DUE TO IMPROPER INSTALLATION OR DEVIATION FROM THE RECOMMENDED USES &/OR APPLICATIONS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER TO COVER THE PRODUCT COST, AND LABOR.

IN THE CASE OF A PRODUCT DEFECT BEING THE REASON, A JOINT WARRANTY WOULD COME INTO EFFECT. IF THIS WERE TO TAKE PLACE LEGGARI PRODUCTS LLC WOULD REPLACE THE PRODUCTS SOLD (NOT TOOLS & EQUIPMENT) AND THE CONTRACTOR OR INSTALLER WOULD COVER THE LABOR.

Prepared by: LEGGARI PRODUCTS LLC
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