

CRACKSTARZ - FAST

Polyurethane Alloy Concrete Repair

TECHNICAL DATA SHEET

Specialty Products Development Group informations

2271 Cornell Ave,
Montgomery, IL 60538, United States

info@specialtyproductsdevelopmentgroup.com

PRODUCT DESCRIPTION

CrackStarz Fast is a dual-component, low-odor, liquid-applied polyurethane-alloy system created to repair concrete and masonry surfaces. Its application results in a protective layer that shields concrete against weather elements, corrosion, erosion, freeze/thaw damage, and chemical erosion.

SAFETY MEASURES

Prioritizing safety during the handling of our product is paramount. To prevent skin contact, as some individuals may exhibit allergic reactions to the materials used, we strongly advocate the use of protective gloves, eyewear, appropriate attire, and ensuring proper ventilation. For comprehensive insights and guidance on the safe handling, storage, and disposal of chemical products, we urge you to consult the latest Safety Data Sheet (SDS) for **CrackStarz Fast**. This resource contains essential physical, ecological, toxicological, and other safety-related data.

- KEEP OUT OF REACH OF CHILDREN
- KEEP FROM FREEZING CONDITIONS
- INTENDED FOR INDUSTRIAL USE ONLY

Disclaimer: Our recommendations and information pertaining to the application and utilization of our products are based on our extensive knowledge and experience, provided in utmost good faith. Nevertheless, the actual variances in materials, differences in substrates, and on-site conditions may have implications on the product's performance. Consequently, no warranty or liability can be inferred from this information or any recommendations. Users bear the responsibility of conducting their product testing tailored to their specific application and purpose. We strongly emphasize respecting the proprietary rights of third parties. All orders are subject to our prevailing terms of sale and delivery. For the most recent local product Technical Data Sheet related to the specific product, please don't hesitate to request it.

ADVANTAGES

- Waterproof
- Excellent Abrasion Resistance
- Repairs Can Be Made in Hot or Cold Weather
- Rapid Cure Allows Traffic to Resume in 30 Minutes
- Remains Flexible in a Wide Range of Temperatures

APPLICATIONS

- Hairline Cracks
- Thin, Wide or Deep Cracks
- Pavement Divots

COLOR SELECTIONS

- Part-A: Yellow
- Part-B: Blue

PACKAGING

2 gallon kit: One 1 gallon (3.78 liter) can of Part-A and one 1 gallon (3.78 liter) can of Part-B.

CrackStarz Fast	
Part A	1 gallon
Part B	1 gallon

SURFACE PREPARATION

For hairline crack repair, use dry compressed air to eliminate any loose or unsound material from the cracks. When repairing larger cracks, clear out loose material by blowing dry compressed air into the crack. Afterwards, fill these cracks with sand that's a minimum of twelve (12) mesh or larger.

APPLICATION

CrackStarz Fast application necessitates the use of a proportioning dispensing system. This system functions by transferring, measuring, and blending the co-reactive Part-A and Part-B elements swiftly and precisely. Employing this machinery, the contents from five or fifty-five gallon containers are transferred through proportioning pumps in a 1:1 ratio as specified. Both components flow through a disposable static mixing tube. The resulting blend can be dispensed onto the prepared crack filled with gravel or sand. Any material remaining in the static mixing tube thickens within roughly 1 minute and solidifies in 3 minutes. Once this happens, it's recommended to discard the static mixing tube.

CURING

CrackStarz Fast is a fast-curing substance that achieves complete curing in around 8-14 minutes. It exhibits high sensitivity to both heat and moisture, with elevated temperatures and/or humidity potentially hastening the curing process. Conversely, lower temperatures and/or humidity might marginally prolong the curing duration.

CRACKSTARZ - FAST

Polyurethane Alloy Concrete Repair

TECHNICAL PROPERTIES

Properties	Data
Hardness (ASTM D-2240)	70 ± 5 Shore D
Tensile Strength (ASTM D-412)	2200 ± 220 psi
Ultimate Elongation (ASTM D-412)	5 ± 2%
Compressive Strength**(ASTM C-42)	4750 psi 32.76 MPa
Specific Gravity,	
Part A	1.13
Part B	1.00
Mixing Ratio by Weight	118:100
Mixing Ratio by Volume	1:1
Viscosity at 75°F (24°C), Brookfield,	
Part A	80 ± 20 cps
Part B	100 ± 20 cps
Pot Life @ 75°F (24°C)	200 - 220 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 CrackStarz Fast in a 4" X 8" cylinder.	

EQUIPMENT CLEANUP

After usage, it's advisable to promptly clean the equipment using an environmentally friendly solvent that complies with local regulations.

STORAGE

The product has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

LIMITATIONS

Ensure surfaces are dry, clean, and devoid of any foreign substances. Utilize this product in well-ventilated spaces owing to its potent odor. Once opened, promptly use containers, and under no circumstances dilute the product. **CrackStarz Fast** is intended solely for repairing concrete cracks. For additional details, consult the general guidelines provided.

CHEMICAL RESISTANCE (BASED ON ASTM D-814)

CrackStarz Fast was unaffected by the following chemicals:	
Acidic Chemicals	Acetic Acid, 1%
	Acetic Acid, 10%
	Hydrochloric Acid, 1%
	Hydrochloric Acid, 10%
	Sulfuric Acid, 1%
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

WARNING

This product contains Isocyanates.

DISPOSAL

Follow federal, state, provincial, and local regulations when disposing of empty packaging and other waste materials.