Floorguard Products

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10X

POLYUREA JOINT FILLER

PRODUCT OVERVIEW

10X is a high-performance, two-component, 100% solids, rapid-curing polyurea designed for repairing and filling control joints, construction joints, cracks, and spalls in concrete floors. Engineered for exceptional durability, this semi-rigid formula provides superior edge protection, high shore hardness, and long-lasting support under heavy traffic and industrial loads. Its ultra-fast dry time allows for rapid shaving, finishing, and return to service—making it ideal for facilities requiring minimal downtime. This product cures effectively even in low temperatures, delivering reliable performance and a dependable solution across a wide range of project conditions.

KEY FEATURES

- Rapid Cure Time
- Quick Return-to-Service
- High Flexibility
- Excellent Adhesion
- Load-Bearing
- Cold Climate Cure
- Low Viscosity
- Hardness Balance
- Chemical Resistant
- Hygienic & Sanitary

COLOR OPTIONS

UNTINTED

APPLICATION CONSIDERATIONS

- Higher ambient, product, and substrate temps will decrease working time and dry time
- Not UV Stable
- Do not expose to water until fully cured
- Do not apply to joints or cracks when moisture is present

PHYSICAL CHARACTERISTICS

SOLIDS CONTENT	100%
VOLUMETRIC MIX RATIO	1A:1B
GEL TIME	1-2 Minutes @ 75°F
TACK FREE	5-10 Minutes @ 75°F
LIGHT FOOT TRAFFIC	1 Hour @ 75°F
FULL CURE	1 Day
APPLICATION TEMPERATURE	0°F - 120°F | RH <85%
COVERAGE RATE	

	PER CARTRIDGE	PER GALLON
1/8” x 1/8”	87 lf	554 lf
1/4” x 1/4”	44 lf	277 lf
1/2” x 1/2”	11 lf	69 lf
1/2” x 2”	3 lf	17 lf

SHELF LIFE UNOPENED	1 Year
PACKAGING	22 Oz Cartridge & 10 Gallon Kit

TECHNICAL PROPERTIES

TENSILE STRENGTH	ASTM D638	1,100 psi
ELONGATION	ASTM D638	260%
HARDNESS	ASTM D2240	Shore A 80
ADHESION	ASTM D4541	400 psi

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.
- Saw cut the joint to ACI recommendations.
- All joints must be clean and dry prior to installing 10X. If joint is damp, dry with heat torch. If primer is required, use MV2112.
- Remove all dust from the concrete pores prior to installing 10X. If backer rod is used in control joints, the recommended depth is not greater than 25% of the total depth of the slab.
- Expansion joints are to be filled to full depth using no backer rod or silica sand. To repair control joints, the joint should be cut a minimum of 25% of the total depth of the slab.
- 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

- 22oz Cartridge: Shake cartridge vigorously for 1 minute and bleed material into disposable cup until even mixture is achieved through static mixing tube
- 10 Gallon Kit: Side-A material requires no mixing. Pre-mix Side-B material before application using a mechanical mixer at a low speed.
- Mix until a homogeneous mixture is attained.
- Do not mix in an up and down motion. Use only a proportioning dispensing system which transfers, meters and mixes the Side-A with Side-B components at the desired rate and at the required proportion of 1:1 by volume.

COVERAGE RATES & WORKING TIMES

- 44 lf / Cartridge @ 1/4" x 1/4"
- 277 lf/ Gallon @ 1/4" x 1/4"

- 3-5 Minute Working Time @ 55°F
- 2-3 Minute Working Time @ 70°F
- 1-2 Minute Working Time @ 88° F

APPLICATION PROCEDURE

1. Pump mixed material into joint or crack slightly overfilling
   - For best results, machine dispense using a 1:1 ratio pump, with or without heater as required. Use a disposable static mixing tube with restricter before dispensing. Material left in static mixing tube will thicken in approximately 30-60 seconds and mixing tube needs to be discarded at that point.
2. Allow coating to dry : 10-15 Minutes @ 55°F
   5-10 Minutes @ 75°F
   2-3 Minutes @ 88°F
   - Do not force dry
   - Excess material can be shaved using razor scraper in 15-30 Minutes @ 75°F
   - Light Traffic: 1 Hour @ 75°F
   - Heavy Traffic: 12 Hours @ 75°F
   - Equipment Traffic: 24 Hours @ 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