



PolyGreen Solutions
POLYMER SOLUTIONS FOR SUSTAINABILITY

GREENTECH™
CHEMIX 20k

DESCRIPTION:

CheMix 20k is a two-component elastomeric sealing polymer capable of replacing concrete or asphalt. The material provides exceptional adhesion characteristics and cure times from 1-15 minutes. It is highly chemical resistant, insensitive to water, abrasion resistant and remains thermally stable in harsh environments.

CheMix 20k is low viscosity, self- leveling and will permeate around fillers to fully encapsulate prior to cure. A primer may be required depending on the specific substrate, consult your PolyGreen representative. The material can be pigmented any color.

Physical Property	Test	Result
Flex Modulus	ASTM D-790	20,000 psi
Tensile Strength (psi)	ASTM D-412	1,200 psi
Elongation (%)	ASTM D-412	450%
Hardness – Shore A	ASTM D-785	60 A
Abrasion – Taber CS17	ASTM D-4060	50mg/ 1k cycles
Tear Strength	ASTM D-624	200 lb./ lineal inch
Notched Izod Impact	ASTM D-256	1.5 ft.lb./ in.
Heat Distortion @ 66 psi	ASTM-D648	>140 (60)

Typical Uses

- Some of the many uses are; replacement of concrete or asphalt, pothole road repair, heavy traffic industrial floors, chemical prone spill floors, refrigeration floors, marine break-walls, under ceramic and other traditional flooring.

Features and Benefits

- Cure time adjustable for specific applications and pot life.
- Application versatility for various environments; Plural Component Spray, Pour, Cartridge Gun.
- Hydrophobic Properties when cured.
- Customizable formulation for desired Flex Modulus and Elongation balance.
- Encapsulates virtually any filler material.

Process Guidelines

- *Condition material to 70°-80° F prior to application.
- Equipment Temperatures for hose and preheaters set; 60°-80° F.
- Equipment Pressure; 100-500 psi
- Substrate/ Ambient; 20° – 150° F
- Installed Service Temp; -40° to 180° F
- Substrate Moisture; < 15%
- Mix Ratio; 1 part A to 1 part B
- Coverage @16 mils is 100 sq.ft. per mixed gallon of material + Filler Ratio.

PREPARATION: **CheMix 20k** B-side resin requires mixing prior to use. Mixing should be done with a variable speed drill Jiffy Mixer or drum mount air mixer.

APPLICATION INSTRUCTIONS: Substrates must be fully cured and cleaned prior to any coating operation. The cleaning operation must not leave any residual detergents, acids or alkali cleaners. Concrete flooring should be prepared with shot blasting (SPCC min. 2), diamond grinding and/or machine sanding depending on severity of concrete surface condition. When using **CheMix 20k** for coating steel, the substrate should be shot blasted to a SSPC 4-6 mils profile. After shot blasting, the substrate should be clean and dry. There should be no visible rust prior to coating. An adequate proportioner and transfer pumps must be used to maintain the required processing temperatures and pressures specified under working load.

SUBSTRATES: **CheMix 20k** is compatible with most common construction materials including those listed in the Description section. It is the responsibility of the contractor to check substrate compatibility prior to starting of the job.

HOW SUPPLIED: Net weight per drum set is 950 lbs. A drum set of **CheMix 20k** consists of one (1) 52 gallon / 500 lb. drum of 'A' component and one (1) 52 gallon / 450 lb. drum of 'B' component. Pail sets come in one (1) 5 gallon / 50 lb. pail of 'A' Component and one (1) 5 gallon / 40 lb. pail of 'B' Component.

STORAGE: **CheMix 20k** should be stored between 60° – 80° F out of direct sunlight. Do not allow material to freeze. Shelf Life for unopened containers is 6 months when stored properly.

SAFETY PRECAUTIONS: Health Considerations

This chemical system requires the use of proper safety equipment and procedures. Please follow the PolyGreen Solutions product SDS and Safety Manual for detailed information and handling guidelines.



- Consult the PolyGreen Solutions Safety Data Sheets (SDS)

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of PolyGreen Solutions. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by PolyGreen Solutions will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, **PolyGreen Solutions makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. PolyGreen Solutions hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of PolyGreen Solutions for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2019 PolyGreen Solutions, LLC. All rights reserved.



PolyGreen Solutions, LLC.
500 Sugar Mill Road; 260A
Atlanta, GA 30350
(o) 888.955.FOAM (3626)
(f) 770.481.0011
www.polygreensolutions.com