PolyGreen Solutions
POLYMER SOLUTIONS FOR SUSTAINABILITY

GREENSHIELD™ POLYFLEX 207

DESCRIPTION:

PolyFlex 207 is a microcellular elastomeric polyurethane/ polyurea hybrid system. It provides the physical properties of typical polyureas and expands to provide up to 40 mils of coverage in one pass at the same time. **PolyFlex 207** is designed as a stand-alone system or accessory to other polyurea, polyurethane systems. Excellent coverage for roof seams and fasteners or the entire roof coverage. It can be a floor underlayment or finished floor system where a slight cushion feel is desired. A primer may be required depending on the specific substrate, consult your PolyGreen representative.

Physical Property	Test	Result
Tensile Strength (psi)	ASTM D-412	360 psi
Elongation (%)	ASTM D-412	100%
Hardness – Shore A	ASTM D-2240	65A
Density	DIN 53479	27-29 lb./ft³
Tear Resistance	ASTM D-624C	59 pli
Adhesion Results Elcometer		
Concrete - Primed	D-4541	>300 psi
Steel - Primed	D-4541	>1000 psi
Wood - Primed	D-4541	>250 psi
Cure Time		10-16 sec.

Typical Uses

- Commercial roofing and tanks; as a seam/ fastener treatment or finished system.
- Flooring as underlayment or finished floor system.
- Marine docks and bumpers.

Features and Benefits

- Apply with high pressure plural component machine or low pressure air assisted equipment.
- Achieve up to 40 mils per pass.
- 100% solids high build. No limit for total required thickness. Material will not “flow out” or “lay down/sag”.

Process Guidelines

- *Condition material to 75°-85° F prior to application. Material that is cold or too hot may result in off ratio mixing.
- Equipment Temperatures for hose and preheaters set; 80°-100° F.
- Equipment Pressure;600-800 psi.
- Substrate/ Ambient; 30° – 150° F
- Installed Service Temp; -20° to 150° F
- Substrate Moisture; < 15%
- Mix Ratio; 1 part A to 1 part B
- Coverage @40 mils is 100 sq.ft. per mixed gallon of material.

PREPARATION: **PolyFlex 207** 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 **PolyFlex 207** 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: **PolyFlex 207** 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 **PolyFlex 207**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: **PolyFlex 207** 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.

www.polygreensolutions.com

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