



**PolyGreen Solutions**  
POLYMER SOLUTIONS FOR SUSTAINABILITY

**GREENSHIELD™**

**POLYUREA ALIPHATIC 3507-4207 ( R )**

Steel - Primed      D-4541      >1000 psi

Wood - Primed      D-4541      >250 psi

**Pot Life / Set to Touch**      12-15 min./ 30 min.      1 hour/ 45 min.

**DESCRIPTION:**

GreenShield 3507-4207 is an extremely tough, optically clear, weather resistant, 2 component polyurea formulation. The rollable version comes in 2 primary versions with a range of properties shown below. GS-3507-4207 is a 100% solids aliphatic coating used primarily in exterior, high-wear environments. GS-3507-4207 may be applied over diverse types of substrates such as; metals, woods, foams, engineering polymers, composites, brick and concrete. A primer may be required depending on the specific substrate, consult your PolyGreen representative.

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Physical Property	Test	Result
Optical Clarity	Visual	Clear
Flex Modulus (psi)	ASTM D-790	100k Flex; 250k Hard
Tensile Strength (psi)	ASTM D-412	3500 Flex; 4200 Hard
Elongation (%)	ASTM D-2256	100 Flex; 200 Hard
Hardness – Shore D	ASTM D-785	50 Flex; 75 Hard
Abrasion – Taber CS17	ASTM D-4060	50mg/ 1k cycles
Tear Strength	ASTM D-624	200 lbs./ linear in.

**Adhesion Results  
Elcometer**

Concrete - Primed      D-4541      >300 psi

**PREPARATION:** GreenShield 3507-4207 B-side resin requires mixing prior to use. Mixing can be done by hand for small batches. Batches of 5 gallons or more should be done with a variable speed drill Jiffy Mixer.

**APPLICATION INSTRUCTIONS:** GS-3507-4207 Rollable version is typically applied using; squeegees, rollers or brushes. The application substrate should be clean, dry and free of contaminates/ dust, etc.

**SUBSTRATES:** GS-3507-4207 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 GS-3507-4207 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:** GS-3507-4207 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.

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

#### **Typical Uses**

- Commercial, Industrial; Power plants, boat building, marine environments, industrial outdoor heavy equipment, commercial flooring, decorative concrete, steel infrastructure, etc.
- Optically Clear, may be tinted including luminescent pigments.

#### **Features and Benefits**

- UV Resistant, Clear High Gloss as a stand- alone coating or as a topcoat over other coatings.
- Aliphatic 100% Solids with no VOCs.
- Custom formulation offering a range of elongation and hardness combination to fit several specific application requirements.
- High Dielectric Insulator Capacity

#### **Process Guidelines**

- \*Condition material to 75°-85° F prior to application. Material that is cold or too hot may result in off ratio mixing.
- Substrate/ Ambient; 40° – 110° F
- Installed Service Temp; -40° - 150° 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.