POLYUREA 550

DESCRIPTION:
Polyurea 550 is a next generation coating system that blends advanced aliphatic and aromatic polymer technology for exceptional UV stability, color retention, and durability. This 100% pure polyurea offers high tensile strength with outstanding flexibility, stretching to twice its length without damage, making it ideal for industrial and commercial applications where long term performance and appearance matter.

ADVANTAGES:
- UV Stability: Resists sunlight, fading, and gloss loss
- Strength: High tensile strength with excellent flexibility
- Durability: Withstands 530,000+ stretch cycles
- Chemistry: Aliphatic for weather resistance; aromatic for strength
- Applications: Industrial, flexible, and long-lasting surfaces
- Production: Cures fast; recoat in 30 minute
- Value: 100% solids for maximum film build
- Adhesion: Bonds to metal, single-ply roofs, wood, and concrete without primer

BASIC USES:
Polyurea 550 is a highly durable, flexible coating ideal for containment, steel protection, and tank applications. Contact your American WeatherStar representative for primer recommendations.

INSTALLATION:
- **Surface Prep:** Surfaces must be clean, dry, and free of contaminants. Power wash (min. 2000 psi) with a wide fan tip, treat mildew with a 1:2 bleach solution, and repair cracks or holes with sealant or caulk.
- **Application:** Apply using heated plural-component equipment on a clean, dry surface, with A and B sides at 160°F. Each coat must be fully cured before recoating, and any contamination on cured surfaces should be cleaned and dried before the next application.

COVERAGE RATE:
Polyurea 550 at a minimum of 5.0 gallons per 100 sq. ft. (80 wet mils). Surface texture and wind may affect thickness. For greater builds, apply in multiple coats, allowing 30 minutes to 24 hours between coats.

WARRANTY:
American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of previously installed substrate is beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.

TECHNICAL DATA:

TENSILE STRENGTH:	2800 ± 200 psi ASTM D-2370
ELONGATION:	600% ± 50% ASTM D2370
VOC:	0 g Liter
HARDNESS:	75 ± 5 (Shore A)
SOLIDS BY WEIGHT:	100 ± 2% ASTM D-1644
SOLIDS BY VOLUME:	100 ± 2% ASTM D-1653
FLASH POINT:	> 300°F
VISCOSITY:	800 ± 100 cps (A Component) 400 ±100 cps (B Component)
DENSITY:	1.1 (A Component) 1.05 (B Component)
DRY TIME:	40 seconds
RECOAT WINDOW:	< 24 hours
COMPLETE CURE:	30 days
SHELF LIFE:	6 months
COLOR:	Tan and Dark Gray
PACKAGING:	105 gallon kits

LIMITATIONS:
Surface must be clean and dry. Do not apply to wet substrates or if bad weather is expected.

SAFETY INFORMATION:
Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

AMERICAN WEATHERSTAR LLC
8095 Padgett Switch Rd. | Irvington, AL 36544 | USA
www.americanweatherstar.com | info@americanweatherstar.com
Toll Free: 800-771-6643 | Fax: 251-479-3602