

Ply-Guard UR

Technical Bulletin

Ply-Guard UR is a two-component, rapid curing, spray-applied Polyurea Coating/Lining System that is 100% solids and 0 VOC.

Ply-Guard UR can either be applied directly to the substrate or with the aid of a primer.

Key Features

- Excellent Adhesion to Metal, Concrete, Wood, Fiberglass, and Geotextiles
- Convenient 1:1 Mix Ratio
- Material's Physical Properties Are Not Affected by UV Exposure
- Very Good Abrasion and Impact Resistance
- Very Good Chemical and Abrasion Resistance
- Very Good Tensile, Tear, and Elongation Properties
- Can Withstand Both Foot and Heavy Machinery Traffic with Proper Film Thickness Build
- Required mil Thickness Can Be Applied in One Coat

Application

Ply-Guard UR should be applied through a two-component, high-pressure proportioning unit. Material and hoses should be heated to 150°F, and a minimal pressure of 2,200 psi.

Consult a Polyset Technical Representative regarding specific metal/steel surface preparation and priming requirements.

Product Data

| | |
|---|------|
| Hardness, Shore D (D2240): | 52 |
| Tensile Strength, psi (D412): | 3850 |
| 100% Modulus, psi (D412): | 1460 |
| 200% Modulus, psi (D412): | 1960 |
| 300% Modulus, psi (D412): | 2650 |
| Tear Strength, DIE-C pli (D624): | 570 |
| Ultimate Elongation, % (D412): | 425 |
| Taber Abrasion, mg loss CS17: | 17.0 |
| Flexibility, 1/8" Mandrel: | Pass |

Component Properties

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|-----------------------------|-----|
| Viscosity: | |
| A Side, cps: | 350 |
| B Side, cps: | 650 |
| Gel Time, sec: | 11 |
| Tack Free Time, sec: | 22 |

Shelf Life: Twelve months in original, unopened containers

Packaging: Available in 5 gallon pails, 55 gallon drums, and 275 gallon totes

Storage: Store between 60–90°F in sealed containers

For Professional Use Only

Ply-Guard UR is for industrial use only. Avoid contact with eyes and skin, and do not inhale or ingest. When spraying, wear a respirator or a fresh-air hood. Spraying indoors requires forced ventilation. Be sure to read the Safety Data Sheet in its entirety.

**FOR ADDITIONAL APPLICATION & EQUIPMENT RECOMMENDATIONS,
PLEASE CONSULT YOUR POLYSET TECHNICAL REPRESENTATIVE.**

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