

Product Data Sheet

RS 99 RG TM Pure Polyurea Spray

Product Description- *Rubber Source RS-99-RG* is a fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material. **RS-99-RG** is used by itself or in combination with other materials to produce liners on metal and other composite bed substrates. Its extremely fast gel time makes it suitable for applications down to -20°F without special conditioning of the component resins and isocyanates. **RS-99-RG** produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils to 250 mils without appreciable sag or runs. **RS-99-RG** may be applied in all positions and to any suitably prepared substrate. **RS-99-RG** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **RS-99-RG** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

Uses- *Rubber Source RS-99-RG* is a standard performance system for bed liners. **RS-99-RG** is flexible, accommodating movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements **RS-99-RG** may be used in transitional areas with confidence. **RS-99-RG** may be used in interior or exterior applications. Being aromatic based, some color fade may occur in outdoor applications. **RS-99-RG** is also recommended for repair of other bedliner systems (with proper preparation), and may be applied to metal and other composite bed substrates.

Ideal for Applications In-

- Bed Liners
- Ambulance & Utility Vehicle Lining
- All Terrain Vehicles
- Fleet Vehicles
- Construction Vehicles
- Industrial Furniture

Advantages-

- 100% Solids, No VOC's
- Flexible, >200% Elongation
- Excellent Thermal Stability
- Good Resistance to a Wide Range of General Chemical Exposure, pH range of 4 to 14
- Coat Most Metals without Primer
- Fast set for Nice Surface Texture / Stipple
- Seamless Elastomer
- Remains Flexible in Cold Temperatures
- Return Project to Service in 60 Minutes
- Cures From -20°F to 225°F
- Odorless, No Toxic Vapors

Physical Properties-

<u>Cured Film Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Solids Content		100%
Shore (D) Hardness	ASTM D2240	50
Elongation	ASTM D638	200 – 275%
Tensile Strength, psi	ASTM D638	2000 – 2900
Tear Strength, pli, Die C	ASTM D624	375 – 450
Taber abrasion, mg wt loss (1000 gms, 1000 revs, H-18 wheels)	ASTM D4060	70 – 145
Gel Time	ASTM D1640	3 – 4 Seconds
Tack Free	ASTM D1640	6 – 10 Seconds
Open to Use		60 Minutes

The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

Limitations - RS-99-RG should not be used for direct contact with extremely high or low pH attack. Composite systems are available. Consult **Rubber Source Inc.**

Coverage Rates-

Theoretical Square Feet Per Gallon

Mils	10	15	50	60	80	100	125
	160	107	32	27	20	16	13

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

Packaging-

- One Hundred Gallon Kit: 50 gallons of 'A' side and 50 gallons of 'B' side - Drum containers filled by weight, volume is closely approximated.

Mixing- RS-99-RG must be spray applied using approved equipment. Use 1:1 ratio pump, with appropriate material heaters, as required for individual application.

Colors- Standard color is black.

Shelf Life- One year from date of shipment, in original, unopened factory containers, under normal storage conditions of 60°F to 95°F (18°-35°C).

Clean Up- Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

Safety- Review MSDS

Basic safety for personal protection is:

- Long-sleeve overalls or disposable Tyvex overalls.
- Rubber gloves.
- Respirator
- Splash shield or safety glasses with splash guards.
- Do not take internally. Rubber or leather boots.
- Do not use near high heat or open flame.
- Keep out of the reach of children.

Preparation and Installation- Please review the Material Processing & Handling Information for preparation and application procedures. Substrate priming is not required on all metals, consult **RubberSource** for recommendations. Also, please consult the **RubberSource** Spray Gun Configuration Recommendation PDF for specific modules and tips.

Technical Services-Sales and Customer Support (519) 620-4440

Warranty- RubberSource Inc. will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.