

## RS-440

## Product Data Sheet

### Abrasion Resistant Spray Polyurea

USGBC LEED, EQ Credit 4:  
Low-emitting VOC Compliant Materials

**Product Description** - RubberSource RS 440 is a fast set, rapid curing, 100% solids, flexible, two-component abrasion resistant polyurea elastomer spray coating material. RS 440 may be used by itself or in combination with other materials to produce coatings, liners, wearing courses, resilient surfaces on metal and other substrates. Its extremely fast gel time makes it suitable for applications down to -40°F without special conditioning of the component resins and isocyanates. RS 440 produces an extremely tough film at varying thicknesses using a multiple pass technique. RS 440 may be applied in all positions and to any properly prepared, sound substrate. RS 440 is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. RS 440 is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

**Uses**- RubberSource RS 440 a superior metal coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, most corrosive substances and abrasive action. RS 440 may be used to coat any properly prepared substrate. RS 440 is flexible, accommodating to movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements, RS 440 may be used in transitional areas with confidence. RS 440 may be used in interior or exterior applications. RS 440 is recommended for repair of other films, may be applied to metal and other substrates, in new construction and in cold weather conditions.

#### Ideal for Applications in:

- Abrasion resistant steel liners
- Metal parts
- Tank lining

#### Advantages:

- High abrasion resistance
- 100% solids, no VOC's
- 1:1 mix ratio by volume
- Rapid cure
- Fast return to service
- Applied by plural component spray
- Odorless
- Exposure range from -40°F to 300°F, dry
- USDA approved

Property	Test Method	Typical Value
VOC	Theoretical	0%
Solids Content	Theoretical	100%
Gel Time	ASTM D1640	6 – 10 seconds
Tack Free	ASTM D1640	12 – 15 seconds
Tensile Strength (psi)	ASTM D638	2500 – 3000
Tensile Elongation (%)	ASTM D638	400 – 500%
Modulus of Elasticity (psi)	ASTM D638	575 – 675
Tear Strength (lb/in)	ASTM D624	400 – 500
Shore (D) Hardness	ASTM D2240	50
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	80 – 100

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 440 should not be used for direct contact with extremely high or low pH attack. Composite systems are available. Consult **RubberSource**.

## RS-440

**Coverage Rates-** Theoretical square feet per gallon

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

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

### Packaging-

- One Hundred Six Gallon Kit: 53 gallons of 'A' side and 53 gallons of 'B' side. Drum containers filled by weight, volume is closely approximated.

**Mixing-** RS 440 must be spray applied using approved equipment. Use 1:1 ratio pump with appropriate material heaters, as required for individual application. For more information contact **RubberSource**

**Colors-** Contact RubberSource.

**Preparation & Installation-** Please review the Material Processing & Handling Information for preparation and application procedures. Substrate priming is not required on all substrates, consult **RRuber SReobd** for recommendations. Also, please consult the **RubberSource** Spray Gun Configuration Recommendation pdf for specific modules and tips. An 01 module is recommended for processing RS 440.

**Clean Up-** Cured product may be disposed of without restriction. Excess liquid 'A' & '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 from RubberSource

Basic safety for personal protection is:

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

**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).

**Technical Services-** Sales and Customer Support 519-620-4440

**Warranty-RuberSource 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 of 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 changes or expenses of any nature incurred without its written consent.