

Product Data Sheet

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RS Aliphatic ClearCoat™

Polyaspartic Pure Polyurea

USGBC LEED, EQ Credit 4:

Low-emitting VOC Compliant Materials

Product Description- *RubberSource Aliphatic ClearCoat* is a high solids, color stable aliphatic polyurea coating. **RS Aliphatic ClearCoat** may be applied directly to most substrates and may be used as a topcoat for existing epoxy, polyurethane, or polyurea. This coating is extremely color stable and displays excellent UV weathering characteristics. **RS Aliphatic ClearCoat** may be applied in temperatures as low as 20°F. When fully cured, **RS Aliphatic ClearCoat** will produce a highly abrasion resistant, high-gloss, smooth finish.

Uses- **RS Aliphatic ClearCoat** adheres well to most substrates including concrete, steel, wood and plastic. The high tensile strength of the coating is able to withstand the abuse of industrial equipment, steel-wheeled carts and forklifts. The excellent chemical resistance is well suited for many harsh applications.

Ideal for Applications in:

- Any exterior use requiring color stability
- Automobile dealership floors
- Aircraft hangers

Advantages:

- Fast cure, high solids, low VOC's
- High tensile strength
- Color stable, excellent UV stability
- Adheres well to most substrates
- Low odor
- Cures as low as 20°F
- High gloss finish
- USDA, FSIS & CFIA approved
- Adds new life to epoxy floors
- Conforms to SSPC-Paint 39, Type 2

Physical Properties-

(Typical) 1:2 Mix Ratio		
Cured Film Properties	Test Method	Typical Value
Pot life	(@ 77°F w/recommended acetone reduction)	20 – 25 minutes
Tack free	ASTM D1640	1.5 – 2 hours
Dry-to-recoat	ASTM D1640	2 hours
Max recoat window	ASTM D1640	4 hours
Gloss (60°)	ASTM D523	80
Tensile strength (psi)	ASTM D638	1500 – 2500
Tensile elongation (%)	ASTM D638	95 – 115
Elastic modulus (kpsi)	ASTM D638	50 – 75
Tear strength (lb/in)	ASTM D624	365 – 500
Shore D hardness	ASTM D2240	50 – 60
Taber abrasion, mg wt loss (1000g, 1000 revs, CS-17)	ASTM D4060	15 – 20
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.		

The addition of 10 to 20 % by weight solid filler to the Resin side of the ACC will provide for an increase of the theoretical Specific Gravity of the cured polymer from about 1.10 - 1.15 g/cc to about 1.45 - 1.50 g/cc. The addition of the filler will also show a decrease in the reported elongation from 95 - 115% to about 25 - 30%.

Limitations- Requires dry substrate.

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Packaging-

- Three Gallon Kit: 1 gallon of 'A' side and 2 gallons of 'B' side

Mixing- **RS Aliphatic ClearCoat** is prepackaged in separate containers with adequate space in the part 'B' container to accept the full contents of part 'A' container and provided color pigment.

Full or Partial Batch Mix: Mix part 'A' with part 'B' until thoroughly mixed (use paint paddle or low speed drill mixer; however, do not entrain air or bubbles into the mixture. 5 to 15% acetone by volume may be added to the mixed 'A' & 'B' to obtain the stated pot life. If color is desired, add color pigment to the diluted 'A' & 'B' mixture until color is homogeneous.

Colors- Available upon request.

Preparation & Installation- **RS Aliphatic ClearCoat** adheres well to clean, dry and sound substrates including cured concrete, steel, wood and plastic. All surfaces should be free of loose particles, contaminant, voids and spalls. It is recommended that the product be applied in a multi-directional (north-south, east-west) motion to ensure proper coating thickness. Chloride levels should be checked prior to application. **RS Aliphatic ClearCoat** may be applied up to 10 mils thickness per coat. Second coat shall be applied within 4 hours of initial coat. The working time of this product is 10 to 12 minutes. Please review Material Processing & Handling Information for further details.

It is recommended to wipe steel surfaces with acetone prior to application of **RS Aliphatic ClearCoat**. This will remove moisture or dust that may have accumulated on the surface after abrasive blasting.

RS Aliphatic ClearCoat may be over coated after it has become tack free.

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

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 877-620-4440

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 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.