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TECHNICAL SALES BULLETIN

Silaprene® Royal Seal 1000 Adhesive/Sealant

Silaprene Royal Seal Adhesive/Sealant is an exceptional one-part product that combines ease of application, versatility of use, high ultimate strength, permanent bonds and long service life. Royal Seal adhesive/sealant is a high quality, elastomeric sealant that provides superior adhesion to a variety of surfaces.

DESIGNED TO BOND

1. All kinds of metal, including galvanized
2. Wood, particleboard and plywood.
3. Rubber, concrete, masonry and glass
4. Thermoplastics, such as ABS, and polyolefins
5. Thermoset plastics like phenolic, polyurethane, polyesters and epoxies.
6. Fiberglass and other fiber reinforced plastics

PHYSICAL CHARACTERISTICS

1. Fast drying with quick tack free times
2. Permanently resilient - resists vibration and stress caused by temperature cycling
3. Outstanding resistance to water, most industrial chemicals, acids and bases
4. Resists cracking, chipping and peeling
5. Requires no priming
6. Smooth, creamy texture
7. Easy to gun - colored versions can be finger tooled.
8. Paintable
9. Exceptional UV resistance and weatherability
10. Forms a tight, long-lasting seal to most surfaces
11. Shelf life: 12 months when stored below 80° F

TYPICAL PROPERTIES

(Specification ranges available upon request.)

Base: Block Co-Polymer

Types:

Clear – DC12895

White – DC13011

Type	White	Clear
Solvents	Aliphatic /Aromatic Hydrocarbons	Aliphatic /Aromatic Hydrocarbons
Solids	66.0%	62.5%
Viscosity	Paste extrusion grade	Paste extrusion grade
Weight/gallon	8.09 pounds	7.5 Pounds
Specific Gravity	.97 – 1.04	.905
Temp. range	-40°F to 200°F	-40°F to 200°F

PREPARATION OF SUBSTRATES

Surfaces to be bonded should be cleaned of all dust, oils or other contaminants. A solvent wipe is often adequate. Bonds to rigid surfaces are usually improved by a solvent wipe followed with light abrasion (180 grit), and another solvent wiping to remove abrasive residue. Dry surfaces thoroughly before applying adhesive.

METHOD OF APPLICATION

Royal Seal Adhesive/Sealant can be applied by ordinary caulking guns or pressure pumping equipment. Pumping equipment should be of the follower-plate type and have a pump ratio of at least 40:1. Cox, Aro, Binks, DeVilbiss, Graco and Lincoln all produce suitable equipment for handling this material.

Apply a bead of Adhesive/Sealant to one surface at temperatures above 40° F. When used as an adhesive between two non-porous surfaces, solvent must escape through the edges of the bond line. Clamping, taping or use of mechanical fasteners to hold parts in place until Adhesive/Sealant develops strength is recommended. After 24 hours at room temperature, the product is considered self-holding. The use of a heat lamp at 150° F for 1 hour will speed solvent evaporation and accelerate strength build-up.

Silaprene Royal Seal Adhesive/Sealant is formulated for room temperature curing, and curing is initiated when a majority of the solvent has been evacuated from the bond line. Strength build-up is very fast in the early stages to give high holding power, with continued strength build-up over time.

Royal Adhesives & Sealants, LLC • 2001 W. Washington Street, South Bend, IN 46628 • Phone: 800-999-GLUE • Fax: 574-246-5425

This product is warranted to the original purchaser to meet published specifications, if any, and, in the absence of published specifications, to be merchantable quality. Such warranty may not be assigned or otherwise transferred by purchaser. No other warranty, expressed or implied, of fitness for a particular purpose or any other thing is made. Purchaser's exclusive remedy for breach of this warranty shall be a refund of the price paid for the products by the purchaser. Except as stated above, Royal Adhesives & Sealants, LLC, shall not be liable for any defect in, or breach of obligation relating to the defects in these products, regardless of the theory that may be asserted, including, without limitation, negligence, contract, absolute liability in tort or misrepresentation. If the purchaser does not accept goods on these terms, they are to be returned at once, unopened.

CLEANER AND THINNER

Uncured material can be cleaned up with VMP Naptha, Heptane, and Mineral Spirits. Thinning is not recommended. If a thinner product is deemed necessary for your application, contact your Royal Adhesives & Sealants salesman.

PRECAUTIONARY DATA

This product is flammable. Vapors may form an explosive mixture with air. Precautions should be taken to keep product away from fire, sparks, motors and other sources of heat or flame. Turn off or deactivate any electrical equipment or sources of ignition. Adequate ventilation is required to keep vapor concentrations below the Threshold Limit Value.

- For professional or industrial use only
- Read the container label and the Safety Data Sheet carefully before use
- Keep away from children
- Keep container closed when not in use
- Store closed container under 80° F

DISPOSAL INFORMATION

Do not reuse container or remove label. Safely dispose of container and contents in accordance with applicable Federal, State and Local regulations.

TYPICAL ENVIRONMENTAL PROPERTIES

UV rating:	Little to no effect, 1000 hours; QUV test ASTM G53.
Slump resistance :	Good
Creep resistance:	Excellent
Ozone resistance :	Excellent
Elongation:	400%