

TECHNICAL SALES BULLETIN_

SOLIDSEAL ™

POLYURETHANE

ADHESIVE/SEALANT

SOLIDSEALTM is a one component, 96% solids, fast cure, flexible, silicone free, rubber based, dual purpose adhesive/sealant. It is a moisture cured, non sag system. SOLIDSEALTM provides a permanently elastic bond to most substrates.

DESIGNED TO BOND:

- 1. Various metals, including galvanized steel, stainless steel, cold rolled steel, and aluminum
- 2. Wood, particle board and plywood
- 3. Glass, concrete, masonry and rubbers
- 4. Fiberglass and fiber reinforced plastics
- 5. Thermoset plastics such as polyurethane, polyester, epoxies
- 6. Thermoplastics, such as ABS, nylon, PVC
- 7. Skylight & porthole materials
- 8. Heating & air conditioning (HVAC) materials

FEATURES:

- 1. One component, ready to use, fast cure
- 2. Odorless and particularly low volume shrinkage
- 3. Suitable for Marine applications above and below water line
- 4. Silicone free; paintable with most paints
- 5. UV stable, heat and moisture resistant
- 6. Broad adhesion spectrum to most substrates
- 7. Non-staining characteristics on stone substrates
- 8. Solid seal meets NSF 51 rated R2.

TYPICAL PROPERTIES:

(Specification ranges ave	ailable upon request.)
Base:	Polyurethane
Colors:	White, gray & black
	(custom colors available)
Viscosity:	Paste extrusion grade
Weight/gallon:	9.8 pounds
Specific Gravity:	1.17
	unopened container under 80° F

SOLIDSEAL™ POLYURETHANE ADHESIVE/SEALANT (cont.)

TYPICAL LAP SHEAR STRENGTHS (PSI):

(Samples aged 30 days at room temperature; pulled at 2 inches per minute)

Aluminum to aluminum	486
FRP to FRP	280
Plywood to plywood	336
Galvanized steel to galvanized steel	406
Galvanized to Kemlite®	189

Temperature Range:-40° F to 200° FShelf Life:12 months when stored in original

TYPICAL PHYSICAL CHARACTERISTICS:

(Specification ranges available upon request.)Tensile Strength after 30 days at room temperature:199 psiUltimate Elongation after 30 days at room temperature:700%Shore A Hardness after 30 days at room temperature:50

UV Resistance:Very GoodOzone Resistance:ExcellentCreep Resistance:ExcellentSag Resistance:Excellent

PREPARATION OF SUBSTRATES:

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

Dry surfaces thoroughly before applying adhesive.

METHOD OF APPLICATION:

SOLIDSEALTM 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 65:1. Aro, Binks, DeVilbiss, Graco and Lincoln all produce suitable equipment for handling this material. Consult Royal representative or equipment supplier to ensure installation of proper equipment (including moisture lock hoses and accessories) are in place before start-up. Apply a bead of SOLIDSEALTM to one surface at temperatures above 40° F. Surface skin formation will occur in 40-60 minutes, depending on ambient conditions. Initial set time is 4 hours, after which parts may be handled.

Clamping, taping or use of mechanical fasteners to hold parts in place until SOLIDSEALTM develops strength is recommended. After 24 hours at room temperature, the product is considered self-holding.

Strength build up is very fast in the early stages to give high holding power, with continued strength build up over time.

Stainless Steel to Stainless Steel (7 day RT aged)236 (SS type 304-2B)CLEANER AND THINNER:236 (SS type 304-2B)Toluene, Methyl Ethyl Ketone

PRECAUTIONARY DATA:

Store in dark and cool place. Avoid excessive heat. During storage, moisture and water should be avoided. Reaction with moisture or water will cause quality deterioration, but will not be hazardous. For industrial use only.

DISPOSAL INFORMATION:

Disposal should be made by incineration or in accordance with applicable governmental regulations.

10/28/11

ISO 9001:2008

For reference only

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This product is warranted to the original purchaser to meet published specifications, it 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.