



## STP 1921 Modified Silane Sealant

STP 1921 is a high quality, neutral, elastic single component adhesive/sealant based on Silane-terminated Polymer, which cures by reaction with moisture to an elastic product. The skin formation and curing time are dependent on humidity and temperature, and the curing time also depends on joint depth. By increasing the temperature and moisture these time can be reduced; low temperature as well as low moisture retard the process.

STP 1921 is a good compromise between an adhesive and a sealant based on Silane-terminated Polymer. STP 1921 is suitable for elastic seal which also high strength is required.

STP 1921 is odourless and free of solvents, isocyanates, silicones and PVC. It demonstrates good adhesion without primer to many substrates and is compatible with suitable paint systems. The sealant also demonstrates good UV resistance and therefore can be used for interior and exterior applications.

<b>Technology / Base</b>	Silane-terminated Polymer
<b>Type of Product</b>	Sealant
<b>Components</b>	One component
<b>Curing</b>	Humidity cure
<b>Appearance / Color</b>	White/Black/Gray
<b>Consistency</b>	Thixotropic paste

### Features and Benefits

- Odourless
- Non-corrosive
- Primerless adhesion on many substrates
- Colour stable and UV resistant
- Ecological advantages – free of isocyanates, solvents, PVC

### Typical Applications

- Elastic bonding of metals and plastics.
- Elastic, interior and/or exterior seam and joint sealing.

In the following areas: vehicle body, caravan, railway carriage, container, general metal and apparatus construction; the electrical, plastics, air-conditioning and ventilation industries.

### Application Instructions

The substrates must be clean, dry, free of oil and grease.

Sausage is applied with the corresponding Hand or Air pressure pistols. In the case of compressed air application, a pressure of (0.2-0.4) MPa is required.

After application, STP1921 can be smoothed with soapy water.

### Storage Conditions

Recommended storage temp: 8°C to 28°C  
Shelf-life: 12 months in original packaging

### Typical Packaging

Cartridge	430g
Sausage	400ml 600ml

### Disposal Advice

Please refer to the MSDS for disposal instructions.

### Safety Advice

Please refer to the MSDS for safety advice.

### Adhesion

STP 1921 has been tested and found to have excellent adhesion to the following unprimed substrates: aluminum, acrylic-coated aluminum, brass, steel, stainless steel, glass, fiberglass, ABS, rigid PVC, polyester and etc.

By the manufacturing of plastics, external release agents are used; these agents have to be removed prior to use.

Depending on the surface it can be necessary to roughen the surface or to use a primer as an adhesion promoter to provide optimum adhesion.



**Application Limitations**

When bonding and sealing PMMA and polycarbonate, under tension, stress corrosion cracking may occur. In such cases STP 1921 should not be utilized.

**Paintability**

STP1921 may be over-painted, however due to the large number of paints and varnishes we strongly recommend a compatibility test before application. The drying time of alkyd resin based paints may increase.

**Technical Data**

	Value	Condition/Method
<b>Rheology</b>		
Sag resistance	No sagging	
<b>Density</b>		
Specific Density	approx. 1.45	
<b>Curing</b>		
Skin formation time (min)	approx. 30	(23±2)°C,( 50±5)% relative humidity
Cure rate (mm/24h)	approx. 3	(23±2)°C,( 50±5)% relative humidity
<b>Cured Mechanical Properties</b>		
Hardness (Shore A)	approx. 35	ISO7619, GB/T531
Tensile Strength (MPa)	approx. 1.8	ISO37, GB/T528
Elongation to Break (%)	approx. 350	ISO37, GB/T528
<b>Thermal Indication</b>		
Application temperature	5°C to 40°C	
Operating temperature	-50°C to 90°C	
Short exposure	120°C	

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