

# Polymer Systems Technology Limited

UK & Ireland Distributor



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An ISO 9001 Certified Company

# Product Profile

## SP-120 & SP-121 Silicone Primers

### Description:

NuSil Technology SP-120 & SP-121 Silicone Primers are specially formulated, one-component primers. They are designed to be used for improved bonding to NuSil Technology's one-part and two-part RTV silicone rubber compounds. SP-120 & SP-121 are air-drying primer supplied ready to use as pourable solvent solutions in convenient small containers.

NuSil Technology's SP-120 is a clear, colorless primer designed for applications where discoloration of the substrate is undesirable. NuSil Technology's SP-121 is reddish in color, providing easy visual determination of surface coverage.

### Applications:

When properly applied, SP-120 & SP-121 silicone primers are designed to improve the adhesion of NuSil Technology's one and two-component RTV silicone rubbers to various substrates. Included are metals (such as stainless steel, steel, copper, and aluminum) ceramics, glass, some composites, rigid plastics and wood..

### Advantages:

- Single- component, no mixing required
- Convenient container size, less waste
- Transparent to preserve visibility with clear product

Colored to permit easy observation of surface coverage (SP-121).

**CAUTION: NUSIL TECHNOLOGY'S PRIMERS ARE SUPPLIED IN FLAMMABLE HYDROCARBON SOLVENTS. KEEP AWAY FROM HEAT AND OPEN**

**FLAMES. USE ONLY WITH ADEQUATE VENTILATION.**

### Typical Properties as Supplied:

	<u>SP-120</u>
Color	Translucent
Yellow	
Viscosity, cP	1.0
Non-Volatile Content, %	5
Specific Gravity @ 25°C (77°F)	0.77
Flash Point, (TCC)	48°F
Solvent, Type	VM&P Naphtha
Drying Time @ 25°C (77°F), 50% R.H.	30 minutes
D.O.T. Classification	Flammable

	<u>SP-121</u>
Color	Red
Viscosity, cP	1.0
Non-Volatile Content, %	5
Specific Gravity @ 25°C (77°F)	0.763
Flash Point, (TCC)	48°F
Solvent, Type	VM&P Naphtha
Drying Time @ 25°C (77°F), 50% R.H.	30 minutes
D.O.T. Classification	Flammable

## **Storage:**

This material cures in the presence of atmospheric moisture. It is recommended that an inert gas, such as Argon or Nitrogen, be used to blanket the product before securely re-closing the container.

## **Applying:**

NuSil Technology's SP-120 & SP-121 primer may be applied by brushing, wiping or dipping. A uniform, thin film is required. For best bonding results the following procedures are recommended:

1. Thoroughly clean and degrease the surface to be primed with an appropriate solvent and a coarse lint-free cloth.
2. Rinse off surface with clean solvent.
3. When the parts are completely dry, apply a uniform thin coat of SP-120 or SP-121 primer by dipping, spraying or brushing. A camel hair brush may be used, or on smooth surfaces, a lint-free tissue. The dried primer coating will vary from clear to a slight haze. If the surface dries to a heavy whitish haze or a chalk appearance, the coating is too thick. Clean and reapply.
4. At room temperate and 50% relative humidity, the primer coat should be allowed to dry for 1/2 hour. Because this primer is actuated by atmospheric moisture, lower humidity will require a longer drying time.
5. Apply appropriate NuSil Technology adhesive / sealant.

## **Packaging:**

Two Ounce Bottle (SP-120)  
Four Ounce Bottle  
Eight Ounce Bottle  
Sixteen Ounce Bottle  
One Gallon Container  
Five Gallon Container (SP-120)

Containers should remain sealed when not in use. These primers will hydrolyze upon contact with atmospheric moisture and reduce or destroy their effectiveness. Hydrolyzation is indicated by a milky appearance in the primers. Once occurred, the material cannot be reclaimed and will contaminate any unreacted primers.

NuSil Technology believes that the information and data contained herein is accurate and reliable; however, it is the user's responsibility to determine suitability and safety of use for these materials. NuSil Technology can not know the specific requirements of each application and hereby makes the user aware that is has not tested or determined that these materials are suitable or safe for any application. It is the user's responsibility to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. There has been no testing done by NuSil Technology to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please contact NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, you should review the latest Material Safety Data Sheets and contact NuSil Technology for any questions about product safety information you may have.

No chemical should be used in a food, drug, cosmetic, or medical application or process until you have determined the safety and legality of the use. It is the responsibility of the user to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, you should obtain available product safety information and take the necessary steps to ensure safety of use.

## **Specifications:**

The typical properties shown in this technical profile should not be used as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

## **Patent Warning:**

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant that the use or sale of the products described herein will not infringe the claims of any United States patents or other country's patents covering the product itself or

the use in combination with other products or in the operation of any process.

### **Warranty Information:**

NuSil Technology's warranty period is 6 months from date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides you with a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims any other express or implied warranty, including warranties of merchantability and of fitness for use. Your exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted, and NuSil Technology expressly disclaims any liability for incidental or consequential damages.