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## SILANE A-1120 (KH-792)

### Product Description

Chemical Name: N-( $\beta$ -aminoethyl)  $\gamma$ -aminopropytrimethoxy-silane

CAS NO. : 1760-24-3

### Specifications

Appearance	transparent liquid
Colour(Pt-Co)	$\leq 25$
Specific Gravity (20°C, g/cm <sup>3</sup> )	1.010-1.030
Refractive Index ( $n_D^{25^\circ\text{C}}$ )	1.4425 -1.4460
Purity (%)	$\geq 97.0$

### Applications

A-1120 may be used as an additive, eliminating the need for special primers in numerous bonding applications. A-1120 can display a good adhesion in the following system:

#### **RTV Silicones and Hybrid Silane-Crosslinked Sealants**

A-1120 silane coupling agent with a single, two-component silane-crosslinked of the sealant can improve multi-substrate adhesion, including glass, steel, aluminum and concrete. This silane can dramatically enhance the adhesion to a wide array of plastics when used in combination with SPURSM Technology for silylating urethane polymers.

#### **Polysulfide Sealants**

When added to one- and two-part polysulfide sealants, silane A-1120 provides better adhesion to a variety of substrates, including glass, aluminum and steel. Silane

Dosage of A-1120 is 0.5 to 1.0 percent of sealant in general. It disperses well and

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produces cohesive failure in the sealant rather than adhesive failure of the bond between the sealant and the substrate. Furthermore, the use of silane A-1120 can not use primers which enhance the adhesion strength between the coating.

### **Plastic sealant**

Silane A-1120(0.5 to 1.5 weight percent) as a replacement for polyaminoamide adhesion promoters in plastic sealants can improve bonding to metal substrates. In addition to increased strength, the silane-modified plastic sealant has better appearance than a system that uses polyaminoamide adhesion promoters. Silane A-1120-modified plastic systems have a very light color, and the cured compound is bubble-free.

### **Additive in Phenolic and Epoxy Molding Compounds**

Silane A-1120, as an additive in phenolic and epoxy molding compounds, reduces the water absorption of molded composites. So leads to improved wet electrical properties, particularly at low frequencies. High-temperature strength properties are also improved.

### **Packing**

25 kg, 200kg plastic or iron drum