

# Silane USi-402

Vinyl functional alkoxy silane

## Product Description

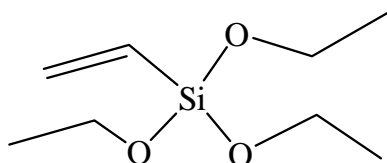
Chemical Name: Vinyltriethoxysilane

Synonym: Ethenyltriethoxy-silane

CAS NO.: 78-08-0

EINECS NO.: 201-081-7

Chemical structure:



## Properties

USi-402, as a co-monomer in polymers, can much improved wet scrub resistance and abrasion resistance thanks to crosslinking and better adhesion to the substrate. Silane-modified thermoplastics obtained by grafting with USi-402 can be processed further using standard techniques. On exposure to moisture, the silyl groups condense and function as crosslinking or adhesion points. By treating fillers with USi-402, mineral filled polymers can be obtained which exhibit improved mechanical and electrical properties. In addition, the particles are rendered strongly water repellent, which results in improved filler dispersibility and thus facilitates processing. Organic surface coatings will adhere more strongly to inorganic substrates that have been treated with USi-402. As a result, these coatings demonstrate markedly greater scratch resistance and resistance to chemicals.

## Typical Technical Data

The below values are not intended for use in preparing specifications. Please confirm with us prior to writing specifications on this product.

Appearance: Colorless transparent liquid

Colour (Pt-Co): 25 max

Specific Gravity ( $\rho_{20^{\circ}\text{C},\text{g}/\text{cm}^3}$ ): 0.898~0.908

Refractive Index ( $n_D^{25^{\circ}\text{C}}$ ): 1.3955~1.3965

Purity (by GC, %): 98.0 min

## Applications

Silane USi-402 is an essential ingredient in many industries as below:

- In the production of silane modified:  
As binders in paints and adhesives
- In the manufacture of pipes and cables:  
Made of silane crosslinked polyethylene
- As an adhesion promoter:  
In primers and coatings
- In the production of organically modified fillers: For cable insulation
- Dip-treating glass fiber and inorganic siliceous filler

## **Safety & Storage**

Customers should review the latest MSDS and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS is available at [www.usi-chemical.com](http://www.usi-chemical.com) or upon request.

Keep away from heat and open flame.  
When stored at or below 35 °C in the original unopened containers, this product has a usable life of 12 months from the date of production.

## **Packaging**

In 20kg, 180kg drum and 900kg IBC

## **Contact Information**

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