

# Si-PolyU 5013

## Product Description

**Si-PolyU 5013** is a moderately viscous, low-polar, silane-modified polymer developed for the formulation of solvent-free and isocyanate-free adhesives. The polymer backbone is based on polypropylene oxide terminated with trimethoxysilyl groups.

The polymer is moisture curing at ambient temperature and can therefore be formulated as one or two component systems. Formulations based on this polymer show good adhesion to a large number of substrates, and there is usually no need for time-consuming substrate pre-treatment or the use of primers.

**Si-PolyU 5013** is suitable for a wide variety of applications and tasks. **Si-PolyU 5013** is particularly suitable for use in (elastic) adhesives with high tensile strength and advantageous adhesion properties on various substrates. The products of **Si-PolyU** series are similar in terms of product chemistry and application. While **Si-PolyU 4020** is preferably used in elastic adhesives with balanced elongation at break and tensile strength, **Si-PolyU 2550** is mainly used in sealing applications. Due to same chemical basis, all three products can be blended, depending on application.

## Main Benefits

- High tensile strength of adhesive formulation
- Broad adhesion spectrum even without primer

## Properties and Applications

**Si-PolyU 5013** is a hybrid polymer that is used as a reactive binder for adhesives and sealants, casting compounds or coatings.

## Categories

### Markets and Applications

Adhesives and sealants, potting compounds and coatings

### Structure

Silane Modified Polymers

### Segment

Adhesives and Sealants

## Alternative Names

Silane Terminated Polymers, Silyl Modified Polymers, Silicone Hybrid Polymers, Silylated Polyurethane, SMP, STPE, MS

## Manufacturer: PolyU GmbH

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