

Si-PolyU 4020

Product description

Si-PolyU 4020 is a moderately viscous, low-polar, silane-modified polymer that was developed for the formulation of solvent- and isocyanate-free elastic adhesives and sealants. 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, eliminating the need for time-consuming substrate pre-treatment or the use of primers.

Si-PolyU 4020 is suitable for a wide variety of applications and tasks. **Si-PolyU 4020** is particularly suitable for use in elastic adhesives with balanced tensile strength and elongation at break 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 5013** is preferably used in (elastic) adhesives with high 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

- Good tensile strength of formulation combined with good elongation at break
- Broad adhesion spectrum even without primer

Properties and Applications

Si-PolyU 4020 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

As a 100% subsidiary of the group holding company PCC SE, PolyU GmbH is part of the international PCC Group. At the Oberhausen location in Germany, PolyU GmbH develops and sells innovative SMP systems for special applications. In close cooperation with customers, solutions are created for individual requirements in a wide range of application areas, industries and markets.

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