



**Desmoseal® S**

Silane-terminated polyurethanes  
(STPs) for sealants & adhesives

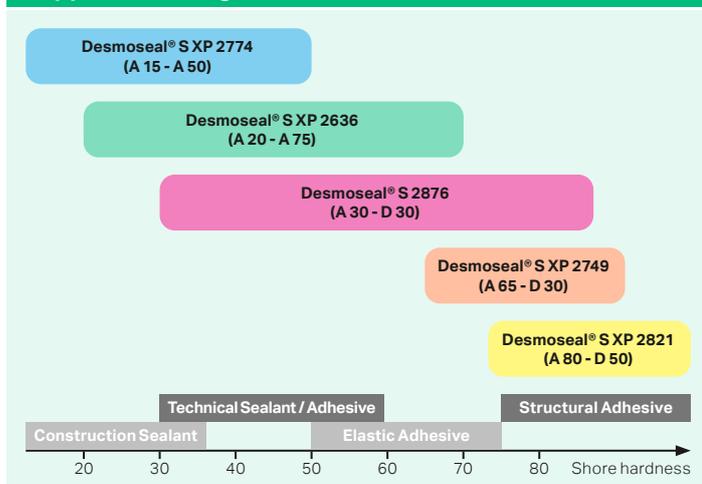


## Desmoseal® S

### Silane-terminated polyurethanes (STPs) for sealants & adhesives

PRODUCT	DELIVERY FORM	VISCOSITY AT 23°C [MPa · S]	MAIN APPLICATION AREA
Desmoseal® S XP 2774	100%	approx. 50,000	Low-modulus sealants with very high elongation
Desmoseal® S XP 2636	100%	30,000–50,000	Low-modulus sealants and elastic adhesives with high elongation
Desmoseal® S 2876	100%	approx. 25,000	High-modulus sealants and adhesives with medium elongation
Desmoseal® S XP 2749	100%	4,400–5,800	Plasticizer-free adhesives with high hardness
Desmoseal® S XP 2821	100%	approx. 20,000	Structural adhesives with high tensile strength and lap shear strength

#### Application range of STP formulations



Silane-terminated polyurethanes (**STP/Desmoseal® S**) combine the advantages of a polyurethane backbone and a silane-based curing mechanism. That is why STPs provide a unique combination of excellent cohesive strength and good adhesive properties. We offer five **Desmoseal® S** grades covering the complete application range from low modulus sealants with very high elongation up to structural adhesives with high hardness and high tensile strength.

These products are used to formulate sealants and adhesives for the building and construction industry as well as for industrial and transportation applications. STPs are easily dilutable with various solvents, enabling low viscous formulations, such as sprayable seam sealers or certain coating applications. They are suitable for a broad spectrum of substrates and can be used for pigmented as well as transparent formulations.

#### STP formulation example transparent sealant



#### The main beneficial properties of Desmoseal® S and corresponding formulations:

- **Desmoseal® S** types display a good compatibility with a broad range of fillers, plasticizers, adhesion promoters, other additives or solvents
- **Desmoseal® S** types are highly reactive and thus can be catalyzed with amines or with low amounts of standard organic tin catalysts
- Formulations allow bubble-free curing, even in thick layers
- Formulations show excellent cohesive strength and good adhesive properties

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<sup>1</sup>Please see the "Guidance on Use of Covestro Products in a Medical Application" document.  
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