Silane-terminated polyurethanes (STPs) for sealants & adhesives
Desmoseal® S
Silane-terminated polyurethanes (STPs) for sealants & adhesives

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 six 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.

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

### STP formulation range

<table>
<thead>
<tr>
<th>Product</th>
<th>Delivery form</th>
<th>Viscosity at 23°C [mPa · s]</th>
<th>Main application area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desmoseal® S XP 2774</td>
<td>100%</td>
<td>Approx. 50,000</td>
<td>Low-modulus sealants with very high elongation</td>
</tr>
<tr>
<td>Desmoseal® S XP 2636</td>
<td>100%</td>
<td>30,000–50,000</td>
<td>Low-modulus sealants and elastic adhesives with high elongation</td>
</tr>
<tr>
<td>Desmoseal® S XP 2458</td>
<td>90% in Mesamoll</td>
<td>26,000–50,000</td>
<td>High-modulus sealants and adhesives with medium elongation</td>
</tr>
<tr>
<td>Desmoseal® S 2876</td>
<td>100%</td>
<td>Approx. 25,000</td>
<td>High-modulus sealants and adhesives with medium elongation</td>
</tr>
<tr>
<td>Desmoseal® S XP 2749</td>
<td>100%</td>
<td>4,400–5,800</td>
<td>Plasticizer-free adhesives with high hardness</td>
</tr>
<tr>
<td>Desmoseal® S XP 2821</td>
<td>100%</td>
<td>Approx. 20,000</td>
<td>Structural adhesives with high tensile strength and lap shear strength</td>
</tr>
</tbody>
</table>

### STP formulation examples

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Edition: 2019 · Order No.: COV00086531 · Printed in Germany · E