



Desmoseal® S

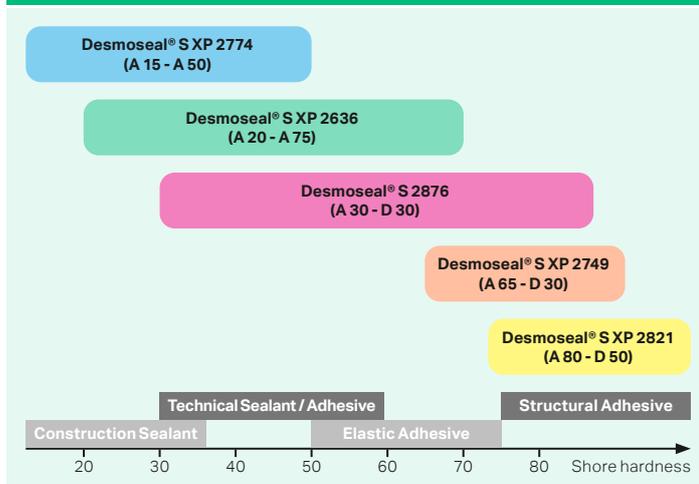
Silane-terminated polyurethanes
(STPs) for sealants & adhesives



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

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise. [EMEA only: If the intended use of the product is for the manufacture of a pharmaceutical/medicinal product, medical device¹ or of pre-cursor products for medical devices or for other specifically regulated applications which leads or may lead to a regulatory obligation of Covestro, Covestro must explicitly agree to such application before the sale.] Any samples provided by Covestro are for testing purposes only and not for commercial use. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release and indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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

Edition: 2023 · Printed in Germany



Covestro Deutschland AG
Kaiser-Wilhelm-Allee 60
51373 Leverkusen
Germany

coatings.covestro.com
info@covestro.com