

Technical Data Sheet

StoSeal SPS A

One-component, polyurethane based elastic sealant



Characteristics

Properties

- Ease of application, requires no mixing
- One component, ready for immediate use
- Non-staining
- Fast curing hence giving a non-tacky surface on the sealing material
- Excellent adhesion to most common substrates
- Good ageing, waterproof and weathering properties
- Non-toxic
- UV-resistance

Application

Apply using a sealant gun

Area of Use

- As a construction sealant on wood, aluminium, most lacquered metals, polyester, glass, PVC, concrete, terra-cotta, stone, ceramic tiles, stoneware and etc.
- For filling vertical and horizontal expansion joints

Technical Data

Data	Criteria	Test Standard	Value	Unit
	Rheological properties (Vertical)	ASTM C639	< 4.8	mm
	Rheological properties (Horizontal)	ASTM C639	No deformation	
	Shore A hardness	ASTM C661	31	
	Tack free time @ 72 hours	ASTM C679	No transfer of sealant	
	Extrusion rate	ASTM C1183	> 10	ml / min
	Stain & Color change	ASTM C510	No visible stain	
	Effect of heat ageing	ASTM C1246	< 7	%
	Effect of accelerated weathering	ASTM C793	No crack	
	Adhesion-in-peel	ASTM C794	> 22.2	N
	Adhesion and cohesion	ASTM C719	No bond failure	
	Curing @ 24 hours	DIN 50014	2	mm
	Elongation	ISO 8339	> 600	%
	Joint movement		± 25	%
	Temperature resistance		- 30 to + 80	°C

The values stated are average values. Due to the use of natural raw materials in our products, the actual value determined on an individual delivery may deviate slightly without compromising product suitability.

Application

Substrate Preparation

All joint surfaces must be clean, dry and free from any oil, grease and loose particles. Porous substrates should be prepared by grinding or sand blasting. All previous sealant, mastic or joints fillers should be mechanically removed. Weak parts of the joint should be ground off and blown out with compressed air.

Backing Material/Bond Breaker

Adjust joint width/depth with backer rod. Do not use oily, bituminous or tar soak backing material. To achieve neat edges to the joint, masking tape is recommended.

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Coating Procedure

Application

Apply StoSeal SPS A in a continuous operation using a hand or compressed air gun. Compress and smooth the sealant with a joint shaping tool (preferably concave profile) wetted with water.

Remove the masking tape immediately after sealant application and allow the sealant to cure.

Note :

1. Protect the applied sealant from water for the first 5 hours.
2. Insufficient access of air (humidity) retards curing.
3. Consult your local Sto SEA office or representative for technical advice for joints in contact with chemicals.
4. StoSeal SPS A is not designed as a glazing sealant in which the adhesive bond to glass is expose to sunlight and appreciate amount of UV radiation.
5. Do not use on plastic surface.

Consumption

Length of joint filled per 600 ml of SPS A				
	Width of joint (mm)			
	10	15	20	25
10	6.0 m	4.0 m	3.0 m	2.4 m
15	-	2.67 m	2.0 m	1.6 m
20	-	-	1.5 m	1.2 m
25	-	-	-	0.96 m

Application Temperature

Minimum application temperature + 8 °C
Maximum application temperature + 45 °C

Cleaning Tools

Uncured StoSeal SPS A can be cleaned using thinner. Cured sealant can only be removed mechanically.

Delivery

Colour

Grey and White

Packing

StoSeal SPS A is available in vacuum packed sausages : -
600 ml (20 sausages per box)
StoSeal SPS A Grey 600 ml
StoSeal SPS A White 600 ml

Storage

Storage life / conditions

The shelf life of StoSeal SPS A is approximately 12 months if stored in cool dry conditions.

Special Notes

Safety Precautions

StoSeal SPS A contains reactive isocyanate and a small amount of solvent. Maintain good ventilation during sealant application and whilst it cures. Do not smoke.

Technical Support

Please consult Sto Technical Service Centre or the local sales office for further information and any site assistance required.

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Special Notes

Disclaimer

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on www.sto-sea.com.

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