

POLYURETHANE SEALANT

SOLL SP5

Product-Information

Product Description:

SOLL SP5 is a one part, very fast curing, polyurethane elastic adhesive/sealant designed for car body sealing which cures on exposure to atmospheric moisture. Specifically developed to meet the car industry requirements, it is characterised by an initial controlled viscosity that makes the product easy to brush and to smooth, particularly in those applications where a thin layer or bead of adhesive is required. Once cured, the products reach high levels of hardness shore A that gives a first equipment appearance to the material.

Main features and properties:

- Very fast skinning and curing time
- Over-paintable in a short time with many water, solvent based paints (preliminary tests recommended)
- Can be easily worked – brushed and smoothed
- Capable of withstanding high dynamic stresses
- Bonds and seals at the same time
- Wide spectrum of adhesion
- Permanently flexible
- Vibration and sound damping properties

Areas of Application:

SOLL SP5 is suitable for sealing, seam sealing (welded seam's, lap panels in all internal vehicle bodywork and painted sheet metals which includes the reproduction of original brush marks and seam sealing), simple bonding as well as for vibration reduction and sound deadening measures in crash body repair and car body construction. Suitable substrates are metal primers and paint coatings (2-c systems), metals and painted plastics.

Technical data

- Chemical basis	Polyurethane
- Cure mechanism	Moisture curing
- Specific weight	1,26 ± 0,02 g/cm ³
- Tack free time at 23°C and 50% r.h.	25 - 30 min
- Curing at 23°C and 50% r.h.	≈ 5,0 mm/24h
- Hardness Shore A (DIN 53505)	55 - 60
- Tensile strength (DIN 53504):	2,0 ± 0,1 N/mm ²
- Elongation at break (DIN 53504)	≥ 300 %
- Application temperature	+5°C to +35°C
- Temperature resistance	- 40°C / +80°C

Instructions:

Preparation: Surface must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper, hard brush. Clean surface with a solvent, like acetone, if the substrate can stand it.

Priming: Pre-test substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion.

Application: Pierce through the protective membrane in the front threaded section. Screw on the plastic nozzle and cut it at an angle according to the desired bead thickness & profile. Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and apply material carefully preventing air entrapment.

Once opened, packs should be used up within a relatively short time.

Do not apply at temperatures below 5°C or above 40°C. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C.

Tooling and finishing: Tooling and finishing must be carried out within the tack-free time of the sealant.

Removal: Uncured product can be removed with a white spirit or another suitable solvent. Once cured, the material can only be removed mechanically.

Over-painting: SOLL SP5, in general, can be over-painted. The paint must be tested for compatibility by carrying out preliminary tests. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and modify the drying time of the paint itself. It should be understood that the hardness and rigidity of the paint film may impair the elasticity of the sealant and lead to cracking of the paint film.

Chemical resistance:

Long term resistance to fresh water, seawater, limewater, diluted acids and aqueous cleaners. Short term resistance to Petrol, grease and mineral oil. Not resistant to organic acids, concentrated mineral acids, caustic solutions or solvents. This information is offered for general guidance only. Advice for specific applications will be issued after consultation.

Colour Range - Packing:

Standard Colours:
Alu-cartridge 310ml:

White, Grey and Black
12 cartridges per box

Storage:

SOLL SP5 can be stored for 12 months in its original packing (unopened container) at 5° - 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

General Information:

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out.