

TECHNICAL DATA SHEET (TDS)

S22 UNIVERSAL SILICONE SEALANT

Demsun S22, is an one-component acetoxy cure silicone sealant for a range of general sealing and glazing applications. **It provides a strong adhesion** and suitable for use on common non-porous building materials.

FEATURES & BENEFITS

- Stays permanently elastic after curing,
- Remains flexible in low and high temperatures,
- Resistant to temperature extremes,
- Resistance to aging, cracking and discoloring,
- Antibacterial. Mold-proof.

APPLICATION AREAS

- Sealing around windows and doors,
- Sealing in DIY applications,
- On bathroom, kitchen and plumbing applications,
- Connection and expansion joints on glass, porcelain, steel etc.
- Sealing electric, telephone etc. sockets and switches.

INSTRUCTIONS

- Ensure that surfaces to be sealed are clean, dry and grease free.
- The application temperature must be between +5°C and +40°C.
- In order to reduce the deformations of the joints, their depth must be much less than their width, minimum dimensions are 5x5 mm, for wider joints the depth should be preferably half of the width and it is adjusted by the use of a backup material.
- After the application, the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish.
- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed barely mechanically.
- 6 mm. joint depth is recommended for joint widths between 6 mm to 12 mm.
- Joint width and depth ratio should be about 2:1.

Suitable for
Every Purpose
Daily Needs

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Consumption (approx.)

Joint Width	6mm	9mm	12 mm
Joint Depth	6mm	6mm	6 mm
Efficiency /310 ml	8 meters	6 meters	4 meters

Surface Preparation

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminum, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer

STANDARDS

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- CE marked for EN 15651 for façade, glazing and sanitary applications(DOP No: DOP-5431)

RESTRICTIONS;

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not recommended to use on porous surfaces like marble, natural stone, concrete etc.
- Because of acidic curing, it must not be used on mirrors and sensitive metals like copper, brazen, lead.
- Not over paintable.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- It is not suitable for food contact applications.
- Do not contact with water.
- Avoid from direct UV.
- Can yellow if exposed to bleach or HCL based brick cleaners whilst curing.

STORAGE AND SHELF LIFE;

The shelf life is 18 months if stored in unopened-original package in a dry place at temperatures between +5°C and +25°C.

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SAFETY & DISPOSAL

Inhalation of the sealant vapor for a long period must be avoided. The application area must be ventilated properly. The uncured sealant must not be contacted for a long period. Cured silicone rubber bears no risk to health. temperatures between +5°C and +25°C. Check MSDS guidelines for disposal and further information concerning safety.

PROPERTIES

Basis	: Silicone Polymer	
Curing System	: Acetoxy	
Density	: 0.96 – 0.98 g/ml	(ASTM D 792)
Shore A Hardness	: 15-25 (after 28 days)	
Skin formation	: 8-20 min. (23°C and 50% R.H)	
Curing Rate	: Min. 2.5 mm/day (23°C and 50% R.H)	
Tensile Strength	: $\geq 0,7 \text{ N/mm}^2$	(ASTM D 412)
Elongation At Break	: $\geq 350\%$	(ASTM D 412)
Sagging	: 0 mm	(ISO 7390)
Application Temperature	: +5°C to +40°C	
Temperature Resistance	: -40°C to +180°C	

PRODUCT

Product Type	Volume	Package
Transparent, White, Black, Aluminum, Grey, Brown, Golden Oak	280 ml	24
Transparent, White, Black (Aerosol Cartridge)	200 ml	12
White, Transparent (Sausage)	80 ml	36
White, Transparent (Tube Blister)	50 gr	24/192

DISCLAIMER

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.