

PRODUCT DATA SHEET

PROBLEND™ S1 SILICONE

A HIGH PERFORMANCE ACETOXY CURE, SANITARY GRADE GUN APPLIED SILICONE SEALANT

DESCRIPTION

PROBLEND™ S1 SILICONE is a high performance acetoxy cure, sanitary grade gun applied silicone sealant that is specifically formulated for use with non porous surfaces and cures to form a tough, flexible seal that can accommodate $\pm 25\%$ joint movement and has excellent recovery. PROBLEND™ S1 SILICONE contains a biocide and is ideal for use in wet area applications and resists growth of mildew. PROBLEND™ S1 SILICONE remains permanently flexible and weatherproof and is recommended for use in internal and external applications.

PRODUCT FEATURES

- Excellent adhesion to substrates
- Excellent weather and UV resistance
- Permanently flexible
- Fast cure rate
- Resistant to mould and mildew growth
- 25% dynamic movement capability
- One part, ready to use
- Primer less adhesion to most substrates
- Low sag Non slump – for horizontal, vertical or overhead surfaces
- Flexible at extreme temperatures
- Internal and external applications

RECOMMENDED FOR

- Sealing shower recesses, kitchen splash backs, bathrooms, laundries
- Sealing flexible movement and expansion joints
- Sealing around sinks and plumbing fixtures
- Sealing around shower screens and bases
- Sealing around bathtubs and spas
- Sealing around vanities and sanitary ware

SUITABLE TILE TYPES

- Ceramic
- Porcelain
- Glass

TECHNICAL DATA

Maximum movement accommodation	Maximum 50% total joint movement ($\pm 25\%$)
Skin forming time (23°C & 50% RH)	Approximately 15 minutes
Cure rate	Approximately 3mm (24 hours)
Shore A hardness	20 – 5 units
Application temperature	5°C – 35°C
Service temperature	-40°C – 180°C
Tensile strength ISO 8339-A	Approximately 0.5N/mm
Curing method	Acetoxy cure
Slump ISO 7390	< 2mm
Water immersion	Not suitable
Volume loss DIN EN ISO 10563	Maximum 5%

SURFACE PREPARATION

Ensure that the surface is dry and clean. Remove any loose material and all contaminants such as grease, oil and dust prior to applying. The joints must be clean, dry and be free from any excess adhesive or foreign material. It may be necessary to rake joints to ensure a maximum, uniform joint depth is achieved. Porous substrates must be primed with Sika® Primer 3N Adhesion to metals and some surface finishes can be further improved by light abrasion. Mask the sides of the joint to produce a neat finish. Use suitable sized foam backing rod or polyethylene bond breaker tape to prevent three sided joint contact.

APPLYING

Cut seal on top of PROBLEND™ S1 SILICONE cartridge. Screw on nozzle and cut nozzle to desired bead size. Fit the cartridge in a suitable gun, hold gun at 45° angle. Push forward, squeezing trigger with even pressure to properly fill the joint, ensure the sealant wets the sides of the joint for optimum adhesion. Tooling must commence within 5 minutes of application, tool the sealant with light pressure to spread the material and to ensure a void free application. If masking tape is used to produce a neat finish, remove the masking tape immediately after tooling, before the sealant skins. Trim with a knife once cured, if necessary.

JOINT DIMENSION

Joint dimensions should be at least 5x5mm for indoor and 10x8mm (width x depth) for outdoor applications. With increasing joint width (up to 30mm), joint depth should be roughly half the joint width. Make sure that the triangular bevels have uniform sides of equal length with at least 7mm bonding surface on each side.

PACK SIZE

PROBLEND™ S1 SILICONE is available in 310ml cartridges.

COVERAGE

310ml cartridge will give approximately 12 lineal meters of a 5x5mm bead.

HANDLING

Sika® supports best practice in material handling: gloves, mask, safety goggles and protective clothing should be worn. For further information refer to product SAFETY DATA SHEET.

STORING

When PROBLEND™ S1 SILICONE is stored in its original unopened package in a dry area at a temperature of 23°C and a relative humidity of 60%; it should be useable for approximately 18 months.

LIMITATIONS

- Do not apply the product in temperatures below 5°C and above 35°C
- S1 SILICONE is not recommended for use in continuous immersed applications
- S1 SILICONE is not recommended for use in food contact or potable water applications.
- S1 SILICONE is not suitable for over painting.
- S1 SILICONE is not recommended for use on aquariums as leaching of the fungicide can occur.
- S1 SILICONE is not recommended for use on surfaces with special coatings, such as mirrors.
- S1 SILICONE should not be applied on wet, damp, frozen, bituminous or contaminated surfaces.
- S1 SILICONE should be tested for possible staining or slight colour changes when used with porous, absorptive, rough textured tiles.
- S1 SILICONE is not a fire rated sealant.
- S1 SILICONE will not cure in absence of atmospheric moisture.
- S1 SILICONE is not recommended for use on concrete, zinc, copper, brass, lead and surfaces affected by acetic vapour.
- S1 SILICONE is not recommended for use with natural stones.
- S1 SILICONE is recommended for use with plastics (PE,PP,PET).
- Contact Sika® for advice if further information is required.