

TECHNICAL DATA SHEET

GP-SI General Purpose Quick Silicone Sealant

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GP-SI General Purpose Quick Silicone Sealant is general purpose single component sealant, high grade Acetic cure silicone sealant which vulcanizes on exposure to moisture in the air at room temperature, to produce a flexible elastomeric sealant. It is suitable for all common construction and glazing application. It is easy to apply and offers excellent adhesion to a variety of nonporous substrates such as glass, glazed ceramic tiles and aluminum. It is resistant to ozone, ultra-violet radiation and temperature extreme

GP-SI General Purpose Quick Silicone Sealant is ideal for Joints in the building industry between wood, metal window frames, UPVC doors & windows, concrete brickwork, joints between concrete and ceiling elements, between wall and ceiling skirting boards, windowsills, sealing around pipe joints, sealing ductwork, sealing duct seams, wall Cracks filling, aerated concrete for inside and outside applications.

FEATURES & BENEFITS

- Easy to use single component sealant.
- Cures at room temperature.
- Antifungal & Antibacterial
- Can be applied in all temperature.
- Excellent resistance to atmospheric weather, moisture, & Extreme temperature.

APPLICATION AREAS

- Aluminium / Glass and standard glazing
- Curtain wall jointing.
- Solar collectors.
- Metal to metal joints and duct work sealing.
- Draught proofing.
- Sealing door / window's frames, tiling, skylights, backlights.
- Realizing a flexible joint in assembling sink and decorative parts.
- Sealing works in air conditioning systems.
- Sealing Shop windows and greenhouses.
- Automobile and windshield glass fixing.
- Bus body sealing and interiors application
- Furniture and all other wood based applications, waterproofing specially flashings.
- Gasketing applications, Industrial applications, sealing and dust proofing.
- Usage for kitchens, chimneys where the temperature does not cross 1800Cen continuously.

INSTRUCTIONS

- Make sure the joint design is correct. Proper joint design minimizes stresses on the sealant. Clean the joint surface on both new and old jobs. Surfaces must be clean, dry, and sound. Since new materials often comes with a protective film, solvent-wash all surface materials with a wet brush and an oil-free solvent.
- Use masking tape where bead lines of exact shapes are required. Masking tape should be removed immediately after a bead is completed before a skin begins to form.
- Apply sealant to dry, clean surfaces. An air-operated or hand operated cartridge gun may be used. Do not break cartridge seal until just before use. Surfaces in this instance should be dried before the sealant is applied. Uncured sealant may be cleaned from tools using commercial solvent.
- Tool joint, if necessary, and remove masking tape. Tooling should be completed in one continuous stroke. Tool immediately after sealant is applied and before the skin begins to form. Do not use soap or oil as a tool aid. Remove masking tape immediately after tooling is completed

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

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Plastics	Degrease using an agent recommended by plastics manufacturer
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RESTRICTIONS;

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not recommended for use in below ground joints or where abrasion and physical abuse are encountered.
- Because of acidic curing, it must not be used on mirrors and sensitive metals like copper, brazen, lead.
- Do not apply to surfaces that require painting or to masonry substrates such as concrete, marble, limestone and brick.
- 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

When stored in original unopened containers at or below 27°C temperature, GP-SI General Purpose Quick Silicone Sealant has a shelf life of **15 months** from the date of manufacturing. Containers should always be sealed when not in use and stored away from direct sunlight and weather. Rotation of stock is an absolute necessity. Cartons should always be stacked upright with the nozzle tip pointed upwards. DO NOT stack cartons on other side. NEVER stack cartons more than 8 nos. high. DO NOT store within 1 Mtr. (4 Ft) of roofline of the warehouse or storage building. **KEEP OUT OF THE REACH OF CHILDREN.**

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 at temperatures between +5°C (41°F) and +25°C (77°F). Check MSDS guidelines for disposal and further information concerning safety.

PROPERTIES

Consistency	Non-Slump Past
Cross Linking / Curing System	Acetic
Density / Specific Gravity	0.97 ± 0.02g/mL
Appearance / Color	Transparent, White, Black, Beige & Grey
Skin Forming Time	5 minutes
Tack Free (ASTM 679)	15 minutes
Full Cure	7 Days
Shore A Hardness (ISO 868)	20 – 25
Depth Cure Rate (mm/Day)	2.5mm
Elongation at Break % (ISO 37)	550
Viscosity Flow	Non Sag
Tooling Time	15 minutes
Tensile Strength (N/mm ²)	1.25
Elastic Recovery, % Approx.	85%
Tear Strength ASTM D 624, Form B	11 N/mm
Shrinkage DIN 53504 S3A	20%
Young Modulus	0.22
Application temperature	-30°C to 180°C

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PRODUCT

Product Type	Packing Type	Volume	Units / Box
Transparent, White, Black, Beige & Grey	Plastic Cartridge	280mL	24 Units x 1 24 Units x 2

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.