

SUN[®]100 Silicone Sealant

DESCRIPTION

SUN[®]100 silicone sealant is a high performance, one part silicone sealant that offers excellent adhesion (usually without a primer), weatherability, elasticity and long life reliability for all glazing applications. The content for the sealant is DOW CORNING 3-7132RTV of the same specification as DOW CORNING 999A.

CHARACTERISTIC

SUN[®]100 silicone sealant is virtually unaffected by UV, RAIN, SNOW, OZONE or temperature variation (-62°C to +204°C).

SUN[®]100 silicone sealant bond well to most common building materials.

USES

SUN[®]100 silicone sealant is generally designed for all plastic and glass glazing applications.

- Shop windows, display cases
- Caulking doors and windows
- Panel and signs
- DIY general purpose sealing

Technical Data

Type-----	One part Silicone Sealant
Sag or slump-----	NIL
Specific gravity-----	1.04
Tack-Free time-----	10 to 20 mins. At 25°C & 50% R.H.
Curing time-----	24 hours at 25°C & 50% R.H. (3.18mm thickness)
Hardness (Shore A)---	30 (ASTM D2240)
Tensile strength-----	350psi (ASTM D412)
Movement capability--	+50% of original 1/8 joint width
Peel strength-----	20ppi (ASTM C794)
Performance -----	-62°C to 240°C
Temperature Range	
Elongation at break---	500% (ASTM D412)



STORAGE AND SHELF LIFE

SUN[®]100 silicone sealant should be used within 12 months from date of shipment. It should be stored in the original unopened packaging at a temperature between 0°C and +25°C.

Previously opened cartridges may be used by simply removing the cured plug of sealant from the nozzle.

PACKING

SUN[®]100 silicone sealant is supplied in 305g cartridges which can fit ordinary caulking guns.

LIMITATIONS OF USE

SUN[®]100 silicone sealant should not be used for structural glazing. SUN[®]100 silicone sealant must not be used on sensitive surface which could react with acetic acid which is released during cure, nor should it be used on materials where migration of constituents can take place.

SUN[®]100 silicone sealant is not recommended where abrasion or physical abuse will be encountered. For all uses in permanent immersion, please consult your agent.

APPLICATION PROCEDURE

Joint Preparation

Make sure the joint design minimize stresses on the sealant. The joint surface to be bonded must be clean, dry and free from dust, grease, oil sealant and any trace of contamination, which may affect adhesion.

Follow these procedures when:

- A) Applying over extruded aluminium and other metals:
 - i) Use abrasive cleaner to scrub the joint surfaces and then rinse with clean water.
 - ii) Solvent wipe joint with methyl ethyl ketone or methyl Isobutyl ketone, use clean rages and change them often.
 - iii) Air dry the joint before sealing.
- B) Cleaning remedial work:
 - i) Clear all old caulking and oily residues, and cut at least 10mm deep into any ceramic joints.
 - ii) Sandblast or wire brush other surfaces.
 - iii) Remove dust with an air-blast.
 - iv) Solvent-wash surface.
 - v) Clear any old paint.

SEALANT APPLICATION

- 1) Break cartridge seal when use. An air-operated or hand-operated cartridge gun may be used.
- 2) Apply the sealant in a continuous operation, making sure all air-pockets or voids are eliminated.
- 3) After a skin has formed, do not disturb the joint for 48 hours.
- 4) In subfreezing temperature, surface is often covered with an almost invisible film of moisture which can cause adhesion problem. Surface in this instance should be dried before the sealant is applied.
- 5) Uncured sealant may be cleaned by using commercial solvents such as xylol. Cured sealant can only be removed by abrasion.

COLOUR RANGE

Clear, White, Bronze, Aluminium and Black.

WARRANTY

SUN[®] 100 warranty is that its product will meet the SUN[®] 100 current sales specifications.

The information and data contained in this publication are based on our current knowledge of the product.

SUN[®] 100, as the application, use and processing of the product are beyond its control, disclaim any warranty of fitness for use or for a particular purpose. These information must on no account be used as substitutes for prior tests, which are essential to ensure that the product is suitable for each specific case. Since it is the user's responsibility to determine the suitability of the product for his own use, he should thoroughly test any application, and independently conclude satisfactory performance before utilization. Suggestion of use should not be taken as inducement to infringe any particular patent.

SPECIFICATION COMPLIANCE

U.K.	- BS 5889
FRANCE	- Label SNJF
GERMANY	- DIN 18545-E
SWEDEN	- MTK
U.S.A	- ASTM D-412, ASTM C920
	- F.D.A. 21 CFR 175, 105
	- TT-S-001543A (COM-NBS)
	- TT-S-00230C (COM-NBS)

Distribution By