

## SABRE SEAL NC



### PRODUCT DESCRIPTION

**SABRE SEAL NC** is a cost effective low modulus, neutral cure RTV silicone sealant that adheres to a wide range of both porous and non-porous surfaces without the need for priming. SABRE SEAL NC is formulated as a high viscosity grade to give excellent tooling properties on vertical and overhead applications.

### BENEFITS

- ✕ *Excellent adhesion – adheres to most common surfaces including glass, metals, plastics and wood*
- ✕ *Low dirt pick up*
- ✕ *Excellent flexibility (+/- 25%) BRANZ Appraisal No. 892 [2015]*
- ✕ *Excellent external weathering properties and UV stability.*
- ✕ *Suitable for use on polycarbonate*

### PACKAGING



600ml Foil Pack 12/ctn (Transparent only)

310ml Cartridge 25/ctn.

### COLOURS AVAILABLE

• Transparent • White • Black. ○ ●

### AREAS OF USE

- ✕ *Roofing and plumbing seals – around penetrations and flashings*
- ✕ *Perimeter pointing internally and externally around PVCu /wood and all other window frames.*
- ✕ *Sealing and as an adhesive onto PVCu, plastic trims and components.*
- ✕ *Suitable as an expansion joint sealant.*

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## SabreSeal



- ✕ Waterproofing
- ✕ Sealing soft metals such as lead, copper and zinc.
- ✕ General glazing sealing and draught proofing, including repair work over existing sealant.
- ✕ Glass to glass and glass to aluminium sealing.
- ✕ Parapet and roof weather sealing applications.
- ✕ Precast formwork sealant.

## LIMITATIONS

- ✕ Do not use in conjunction with bitumen asphalt, or substrates that bleed oil, solvents or plasticisers.
- ✕ Do not use in the manufacture of aquariums or chlorinated water storage.
- ✕ Non overpaintable.
- ✕ Not suitable for bedding I. G Units

## SURFACE PREPARATION

The surfaces to be must be clean, dry and free from dust, grease and other contaminants. As quality of plastics can vary, always carry out adhesion tests prior to large scale use. Improve adhesion by wiping surface with white spirits (painted surfaces). Priming is generally not required, although we always advise testing small areas prior to use. Joint design should be as follows:

**Minimum width:** 5mm. Movement capacity will be impaired if the depth of the joint is greater than the width. For maximum movement accommodation, it is recommended that:

- 1** The joint depth should be no less than 5mm.

- 2** Joint depth should be 5mm for joints up to 10mm wide.

- 3** Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints.

For deep joints, reduce depth by using SABRE® FIX LF FOAM or a suitable joint backer rod.

All joints should be designed so that the seal is placed in a position which does not retain water or form a water trap. Triangular fillets should be no less than 12mm across the face and should be finished with a flat or convex face.

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut at an angle of 45° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the trigger and keeping the gun at a constant angle to the surface being sealed. To ensure a proper bond, always smooth the sealant down with a spatula or piece of wood. An improved joint appearance can be achieved by placing masking tape to both sides of the joint, removing within 5 minutes of application.

## APPLICATION

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut cleanly at an angle of 45° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the gun trigger and keeping the gun at a constant angle to the surface being sealed. Smooth down within 10 minutes of application using a wetted spatula, piece of wood or wetted finger. Any excess sealant can be removed with white spirit.

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**Sabre-Seal**

## SPECIFIC DATA

Movement accommodation:	+ or - 25% (ISO 11600 Class 25LM)
Skinning Time:	10 – 20 mins.
Cure Time:	2 mm per 24 hours
Hardness Shore A:	20 approx
Shrinkage:	<5%
Service Temperature Resistance:	-50°C to + 150°C
Application Temperature Range:	+5°C to + 40°C
Tensile Strength:	1.5MPa
Specific Gravity:	1.2-1.4
Minimum joint width:	5mm
Viscosity:	150,000 – 300,000 cps
Joint ratio:	Maximum depth 50% of joint width
Coverage:	10 linear metres @ 9 x 9mm fillet joint
Elongation at break:	300%

## HEALTH & SAFETY

Consult MSDS for full list of hazards.

## STORAGE

Store in original unopened containers between 15 and 30°C.

## SHELF LIFE

18 months from date of manufacture.

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**SabreSeal**



## SABRE SEAL MS



### PRODUCT DESCRIPTION

**SABRE SEAL MS** is a durable elastic hybrid sealant for use in high movement joints ( $\pm 25\%$ ) in building construction and manufacturing industries.

For use as a flexible adhesive/sealant on concrete construction joints, ACM cladding/façades, joinery, HVAC, cool stores, marine, roofing, spouting and insulation.

Specially formulated for high UV resistance and long term performance on porous and non-porous substrates.

### BENEFITS

- ✕ *Permanently flexible ( $\pm 25\%$ )*
- ✕ *BRANZ Appraisal No. 892 [2015]*
- ✕ *Meets ISO11600 Group F, Class 25LM requirements*
- ✕ *High UV stability for extreme ultra violet exposure*
- ✕ *Non-hazardous – contains no solvents, isocyanates,*
- ✕ *Easy tooling and extrudability in low temperatures*
- ✕ *Non-slump formulation for vertical joints*
- ✕ *Paintable and no priming required on most substrates – see painting section on page 2*
- ✕ *Neutral cure – safe for use on sensitive substrates*
- ✕ *Resistant to chemicals and petrol (10% dilute acids/alkalis, most solvents)*

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## SabreSeal

## TECHNICAL CHARACTERISTICS

Skin time @ 23°C 50% r.h	20 – 40 minutes
Maximum extension	+400%
Peel adhesion (clean aluminium)	23ppi/100% CF 1.6 N/mm <sup>2</sup>
Lap shear (DIN 53283/ASTM D1002)	1.9MPa (N/sq.mm)
Hardness shore 'A'	25 (+/- 5)
Elastic recovery	> 80%
ISO11600 F Class	25LM
Shear strength	1.44 N/mm <sup>2</sup>
Application temperature	5°C to 35°C
Service temperature	-40°C to 150°C

## JOINT APPLICATION

Substrates to be clean of oil, flaky or incompatible paint, dirt, cement dust, contaminants and old sealant.

Mask joint edges if a perfect finish is required, and remove masking before sealant has skinned. Insert PEF backing rod into the joint to ensure correct depth of sealant and to prevent 3-sided adhesion. Joint width to depth ration should be approx. 2:1 i.e for a 20mm wide joint depth should be 10-12mm.

Extrude sealant in a consistent bead, ensuring the sealant makes full contact with the sides of the joint by tooling it firmly into the gap, which ensures good adhesion. Finish joint with smoothing liquid to obtain a smooth even surface.

Joint Width (mm)	Joint Depth (mm)	Metres of joint per 600ml (appx)
5	5	22
10	7	8
15	8	4.5
20	10	2.7
30	15	1.3

## PRIMING

Priming is not generally needed, as Sabre MS has excellent adhesion to most construction materials. Critical applications such as multi-story buildings or exposed areas should be primed for optimal adhesion and durability.

Prime porous concrete, AAC & timber with Sabre Primer PX – leave to flash off for 30 min.

Powder-coats & metals will require a light abrasion then be wiped with Surface Activator and left to flash off – 15-20 mins.

## PAINTING

SABRE SEAL MS will accept most water based paints – test for compatibility.

For best paint bond, apply promptly after sealant cure. Moving joints should not normally be painted as sealant will be more flexible than the paint coating and cause crazing of the painted joint surface.

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## IMPORTANT

- ✗ Not for aquarium use or full submersion
- ✗ Not for structural glazing
- ✗ Do not use on surfaces that may bleed oil or plasticizers
- ✗ High UV exposure may cause some discolouration of sealants, however joint integrity is not compromised.

## PACKAGING & SHELF LIFE



**Available colours:** • White • Black. ○ ●

**Packaging size:** Cartridge 300ml (carton of 12 cartridges).

Foil packs 600ml (carton contains 20 foil packs).

Shelf life is 12 months unopened, in cool, dry conditions at temperatures between 5°C and 25°C.

## PRECAUTIONS

SABRE SEAL MS is non-hazardous but can cause irritation.

Use with adequate ventilation. Vapour inhalation during cure may cause slight eye and/or throat irritation.

Enclosed space use requires a nose / mouth organic vapour respirator.

Wear PVC or latex gloves to prevent skin drying / irritation or contamination.

Wear safety glasses if eyes may be contacted.

Use reasonable care, as with all chemicals.

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