

Technical Data Sheet



PRODUCT DESCRIPTION

SupaSeal LM is a Low Modulus, Hybrid SMP flexible joint sealant that is free of isocyanates and other hazardous raw materials and omits low odour. SupaSeal LM has been formulated to offer outstanding adhesion to most common building and automotive materials; such as aluminium, timber, concrete, fibreglass and be used in most sealing and joint filling applications.

SupaSeal LM displays high joint movement capability with no sagging or slump characteristics to provide a high quality & efficient joint finish especially in wide joints.

SupaSeal LM meets the requirements of:

- ISO 11600 Type F Class 25 LM

APPLICATIONS

SupaSeal LM is suitable for:

- Construction Joint Sealant applications
- Perimeter seals around doors, windows and facades
- General purpose interior joint sealant applications
- Suitable for external sealing applications, demonstrating good weather protection and UV resistance

FEATURES

- Phthalate, Solvent & Isocyanate Free
- Low Odour & Non-Corrosive
- Joint Movement $\pm 35\%$ (ASTM C 719)
- Non-Slump
- Up to 50mm wide joints
- Paintable
- Low VOC (Meets GBCA VOC Content Requirement <50g/L)

MATERIALS

- Precast Concrete Panels
- Fibre Cement Sheet
- Block and Brickwork
- Aluminium Profiles
- Sandstone & Granite
- Fibreglass
- Plasterboard & Blue Board

SURFACE PREPARATION

Surfaces to be bonded must be clean and dry, as well as free of wax, grease, dust and any other foreign materials so that the adhesive bond is not compromised. Metal substrates should be degreased with Admil Prosil Cleaner 1.

PRIMING

It is advisable to conduct preliminary adhesion tests on substrates where the application is critical or if the adhesion performance is unknown. The use of Admil Prosil Primer 1 is recommended for non-porous substrates such as metal, aluminium, glass and plastics.

TYPICAL PROPERTIES

PROPERTY	VALUE	Test Method
Appearance	Thixotropic, Non-Sag paste	
Curing Method	Moisture Curing	
Movement Capability	$\pm 25\%$ $\pm 35\%$	ISO 9047 ASTM C 719
Elongation @ Break	300%	ISO 37 DIN 53504
Skinning Time	Approx. 55 mins	
Rate of Cure	1.5mm/24h	
Shore A. Hardness	28	ASTM C 661
Specific Gravity	1.5 g/cm ³	DIN 52451-A
Tensile Strength	0.85 N/mm ²	ISO 37 DIN 53504
Service Temperature	-40°C to +100°C, up to +120°C for short periods	
Application Temperature	+5°C to +40°C	
VOC level g/L	23	ASTM D3960
Note: All data provided is based on 25°C and 50% Humidity Conditions & fully cured after 21 days		

APPLICATION INSTRUCTIONS

Cut nozzle at a sharp angle slightly wider than the desired bead or joint width. achieved. Extrude sealant with a gun and tool with a round spatula within 40 minutes to spread the sealant against the joint surfaces.

If using to fill expansion joints, the minimum joint width and depth is 5mm. For joint widths up to 12mm, use a width to depth ratio of 1:1. The optimum width to depth ratio for joint widths greater than 12mm is 2:1.

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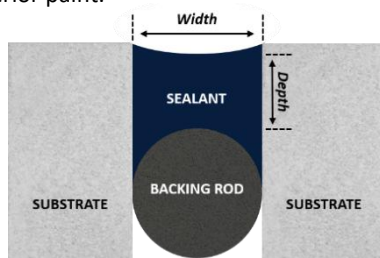
JOINT DESIGN

Always install suitable diameter backing rod (polyethylene or polyurethane foam rod) in joints to control sealant depth and ensure free movement of sealant in joints as per below.

Rule: Joint widths < 12mm, width to depth ratio is 1:1									
Width	5mm	6mm	7mm	8mm	9mm	10mm			
Depth	5mm	6mm	7mm	8mm	9mm	10mm			
Rule: Joint widths ≥ 12mm, width to depth ratio is 2:1									
Width	12mm	14mm	16mm	18mm	20mm	24mm	30mm	40mm	50mm
Depth	6mm	7mm	8mm	9mm	10mm	12mm	15mm	20mm	25mm

Wider joints can accommodate more total movement than narrow joints. Sealant must adhere to sides of the joints only and NOT to the back, so that it is free to stretch. Extrude sealant into the joint such that it is in full contact with the sides of the joint. Avoid overlapping of sealant to eliminate entrapment of air. Smooth sealant with spatula forcing the sealant into the joint for better contact with the sides.

To maximise durability in outdoor applications paint with a suitable exterior paint.



SHELF LIFE & STORAGE

12 months shelf when stored in a dry environment and between +5°C and +25°C.

WARNINGS, FIRST AID AND SHIPPING INFORMATION

Refer to Safety Data Sheet (SDS) before use for detailed information which can be found on our website – www.silicone.com.au

CURING

Cure speed is dependent upon the temperature, humidity, depth of sealant and substrate. Typically, a joint will form a firm skin in one hour and take up to seven days to fully cure. In cold or very humid climates, the cure time may extend beyond seven days.

LIMITATIONS

Exhibits good UV resistance, though it may discolour under prolonged UV exposure or in extreme conditions. Silicone sealants are best for applications fully exposed to UV and high temperatures and are best for applications such as roofing.

Admil recommends users undertake their own risk assessment prior to use, to determine the suitability of the product for the particular use intended. It is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs on the specific surface. For technical support please contact Admil Adhesives representative.

- SupaSeal LM will bond to most common construction substrates, however an adhesion tests on samples substrates should be conducted to ensure adequate adhesion in the finished application.
- In waterproofing applications, SupaSeal LM should be left to cure for a minimum of 8 hours prior to being covered by any membrane / sealer system.
- Tests should be conducted to ensure that there are no adverse reactions between SupaSeal LM and a membrane coating system.
- Not recommended for continuous submersion or below water line use.
- Do not apply in the presence of curing silicone sealants as cure may be affected.
- Avoid contact with alcohol and other solvent cleaners during cure as cure will be affected.
- Do not use for structural glazing.
- May affect drying of alkyd and oil-based paints unless primed with a water-based primer.

PACKAGING

SupaSeal LM is available in Dark Grey, Grey, Black, Off White, Beige & White 600ml Sausage.

Disclaimer:

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