



Soudal

Technical Data Sheet :

SILIRUB B 1

Product Description :

Silirub 501 B1 is a high quality, neutral, highly elastic, one-component sealant based on silicones which conforms to the DIN4102 B1 standard for fire retardancy and has a fire rating of up to 4 hours in certain joint configurations (tested to BS 476/20).

Characteristics :

- very good applicability
- permanent colour, UV-resistant
- stays permanently elastic after curing
- very good adhesion on many materials
- low modulus
- fire retardant class B1 (DIN 4102 Part 2)
- up to 4 hours fire rating in specific joints with normal PE backing material (consult our technical service for more details)

Applications :

- all usual building joints
- all glazing application
- joints with high fire retardant qualities

Application Examples :

- top seals at glazing jobs
- connection joints
- sealings of joints in buildings with high fire rates
- dilatation joints between different building materials

Packaging and Colours :

Colours : Grey (other colours on request)

Packaging : Cartridge of 310 ML
(Other Packagings on request).

Shelflife :

9 months in unopened packaging in a cool and dry storage place at temperatures between + 5°C and + 25°C.



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Technical Data Sheet **Silirub LM B1** Page 2 :

Technical Data :

Base :	Polysiloxane
Consistency :	stable paste
Curing System :	Moisture Cure
Skin Formation :	ca 20 min (20°C/65% R.H.)
Curing Rate :	1 mm/24 h
Hardness :	18 Shore A
Specific Gravity :	1.17 g/cm ³
Temperature Resistance :	-40°C until + 120°C
Elongation at Break :	>250 % (DIN 52455)
Elasticity Modulus 100%:	0.20 N/mm ² (DIN 52455)
Elastical Recovery :	> 83 %
Maximum tension :	0.30 N/mm ² (DIN 52455)
Maximum allowed distortion :	+/-25%

Surfaces :

Substrate :	all usual building materials
State of Surface :	clean, dry, dust-, greasefree
Preparation :	Porous surfaces in some circumstances with Primer 150.check Primer Guide), non-porous surfaces: no primer required

Joint Size :

Minimum Width :	5 mm
Maximum Width :	30 mm
Minimum Depth :	5 mm
Recommendation :	2 x Joint Depth = Joint Width

Application :

Application Method :	Caulking Gun (manual, pneumatic)	Application
Temperature:	+ 1°C until + 30°C	
Clean with :	White Spirit	
Repare with :	Silirub B1	



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Transport Information :

Road :	ADR :	Free
Maritime :	IMDG :	Free
Air :	ICAO/IATA-DGR :	Free
UN Number :		None

Labelling :

Symbol :	None
R-Sentences :	None
S-Sentences :	None

Safety Measures :

Apply the usual industrial hygiene.

Remarks :

Chemically completely neutral (pH = 7)

Standards / Approvals :

- * Germany : DIN 18540 Part 2 "Dichtstoffgruppe E".
- * United Kingdom : BS 5889 Type A
- * Fire Rating B1 : Institut für Bautechnik, Berlin
- * Up to 4 hours fire rating to BS 476(20) - tested by "Laboratorium voor Aanwending der Brandstoffen en Warmte Overdracht" at the University of Ghent . (Test Report 9297 of 9 december 1999) Fire rating for specific joint dimensions and backing materials.

Remark :

The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.