

## ALPA-SIL 18101 2 part Silicone Moulding Rubber

### Description

Notch-resistant, condensation crosslinking silicone filling compound particularly for casting polyester resin.

### Key Features

- Good flowing behaviour
- Very good elastic properties
- Outstanding stability to polyester resins
- Suitable for block moulds and skin moulds with strong undercuts

### Application

casting polyester resin, printing pads, block moulds and skin moulds with strong undercuts

### Use and Cure Information

**Stir up components A and B well before processing!**

KÖRAFORM B 132 is added to ALPA-SIL 18101 at a mixing ratio of 100 : 3 according to weight and mixed with the spatula or stirring unit until the mass is homogeneous. With this mixing process, the potlife starts by which time ALPA-SIL 18101 has to be processed (casting or painting with the brush). Demoulding can be done after 18 hours. For an absolutely bubble-free vulcanisate the mixed silicone must be degassed using vacuum prior to the casting process (max. 5 minutes at 10 - 20 mbar). When moulding difficult substrates such as glass, the separation behaviour has to be verified in own tests and perhaps by adding a silicone-free separation agent.

### Solvents and cleaning agents

For removing fresh mass KÖRASOLV GL must be applied. Residues in the stirring or casting vessel can be easily removed by letting them cure in order to scrape them off afterwards.

### Property

#### Uncured Product

Property	Test Method	Value
Appearance		<b>Translucent</b>
Colour A Part		<b>Translucent</b>
Cure Type		<b>Condensation</b>
De-mould Time / Full Cure at 23°C/73°F		<b>18 h hrs</b>
Density A	DIN 53 479	<b>1.09</b>
Density B	DIN 53 479	<b>1.04 g/cm<sup>3</sup></b>
Mix Ratio By Weight		<b>100:3</b>
Pot Life at 23°C/73°F		<b>100 mins</b>
Viscosity A-Part mPas	Brookfield HBTD	<b>30000 mPas</b>
Viscosity B-Part mPas	Brookfield HBTD	<b>20 mPas</b>
Viscosity Mixed mPas	Brookfield HBTD	<b>29000 mPas</b>

#### Cured Product

**Standard climate DIN 50 014 - 23/50-2. Vulcanizate tested after 7 days at room temperature**

Property	Test Method	Value
Colour		<b>Transparent</b>
Elongation at Break (%)	DIN 53 504, S 3 A	<b>350 %</b>
Hardness Shore A	DIN 53 505	<b>18</b>
Linear Shrinkage (%)		<b>0.5 %</b>
Tear Resistance (N/mm)	ASTM D 624, Die B	<b>17 N/mm / 98 psi</b>
Tensile Strength (N/mm <sup>2</sup> )	DIN 53 504, S 3 A	<b>3,5 N/mm<sup>2</sup> / 435 psi</b>

#### Storage

Max Storage Temperature	<b>30 °C / 86 °F</b>
Min Storage Temperature	<b>5 °C / 41 °F</b>
Shelf Life (mths)	<b>9</b>

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	<b>ALPA-SIL 18101</b> Component A	<b>KÖRAFORM B 132</b> Component B		
<b>Colour</b>	transparent	colourless/yellowish		
<b>Viscosity</b>	30,000	20	mPa·s	Brookfield HBTD <sup>1)</sup>
<b>Density</b>	1.09	1.04	g/cm <sup>3</sup>	DIN 53 479 <sup>1)</sup>
<b>Mixture</b>				
<b>Mixing ratio</b>	100 : 3		according to weight	
<b>Viscosity</b>	29,000		mPa·s	Brookfield HBTD <sup>1)</sup>
<b>Potlife</b>	100		minutes	
<b>Demouldable after</b>	18		hours	
<b>Vulcanisate</b>				
<b>Hardness Shore A</b>	18			DIN 53 505 <sup>2)</sup>
<b>Tear strength</b>	3.5		N/mm <sup>2</sup>	DIN 53 504 S 3 A <sup>2)</sup>
<b>Elongation at break</b>	350		%	DIN 53 504 S 3 A <sup>2)</sup>
<b>Tear propagation resistance</b>	17		N/mm	ASTM D 624 'Form B <sup>2)</sup>
<b>Linear shrinking</b>	0.5		%	after 7 days
<sup>1</sup> = Measured under standard climate DIN 50 014-23/50-2				
<sup>2</sup> = Vulcanisate, measured after 7 days of storage at room temperature				

### Storage

ALPA-SIL 18101 can be optimally processed for at least nine months if stored between 5°C and 30°C in tightly closed containers.

KOERFOARM B 132 can be optimally processed for at least six months if stored between 5 °C and 30 °C in tightly closed containers.

### Health & Safety

#### Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

### Delivery units

ALPA-SIL 18101: 22 kg hobbocks

KÖRAFORM B 132: 0.5 kg PET bottles

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