

## ALPA-SIL 28



two component silicon elastomer that crosslinks at room temperature by polyaddition reaction

- Low viscosity for easy processing due to the spread able adjustment
- Fast mixing
- Curing may be heat accelerated
- The pot life is with the addition of a retarding agent individual adjustable.
- Polymerisation occurs without formation of heat
- Exceptional mechanical properties combined with a medium Shore A hardness.

Used for mould making and duplicating application for dental.

### TECHNICAL DATA

	ALPA-SIL 28 Component A	ALPA-SIL 28 Component B	
Appearance	low viscosity	low viscosity	
Colour	Green	opac	
Viscosity approx. at 23°C	6.000	6.000	mPas <sup>1)</sup>
Density approx. at 23°C	1.3	1.3	DIN 53 479 <sup>1)</sup>
Mixing ratio	<b>Mixture</b> 100:100		by weight
Viscosity			mPas <sup>1)</sup>
Pot Life	3 / 25		Minutes <sup>1)</sup>
Earliest Demould after	15 / 90		Minutes <sup>1)</sup>
Hardness Shore A	<b>Vulcanized material after curing for 60 min. at 80°C</b> 27-31		DIN 53 505
Tensile Strength	3,7		N/mm <sup>2</sup> DIN 53 504 S 3 A
Elongation at Break	360		% DIN 53 504 S 3 A
Tear Resistance	4.8		N/mm ASTM D 624 Form B
Linear Shrinkage	<0,1		% after 7 days <sup>1)</sup>

1) = Measured at Standard Climate according to DIN 50 014-23/50-2

# ALPA-SIL 28

## PROCESSING

### 1. Mixing the two components

ALPA-SIL 20 component A + B are mixed by weight in a fixed ratio given above.

The two components may be thoroughly mixed either by hand or using a low-speed electric or pneumatic mixer to minimise the introduction of air and to avoid any temperature increase.

Futher information is available upon request.

### 2. Polymerisation

The RTV-system, as indicated in the technical data, polymerises at 23 °C. The curing may be slowed down at lower temperature and contrary accelerated by applying heat.

In general contact with certain materials can inhibit the crosslinking of RTV. See list below:

- natural rubbers vulcanised with sulphur
- RTV elastomers catalysed with metal salts, e.g.tin-compounds
- PVC stabilised with tin salts and additives
- epoxy catalysed with amines
- certain organic solvents, e.g. ketones, alcohols, ether etc.

In case of doubts, it is recommended to test before.

## SPECIAL NOTES

### Storage

ALPA-SIL 20 must be used within 12 months of the manufacturing date.

Keep the original packaging closed and at a temperature below 30 °C and frostfree.

## SAFETY

The usual precautions have to be taken into consideration in case of contacts with ALPA-SIL 20 .

### Warning to users:

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

## PACKAGING UNITS

Komponent A: 5 kg

Komponent B: 5 kg

If needed spezial containers are available on request.

### **For safety related data please refer to the safety data sheet !**

Please note: All given data are based on careful examination in our laboratories and our past practical experience. These are non-binding indications. Given the high number of materials appearing on the market and the different methods of use which are beyond our influences and control, we naturally cannot accept any responsibility for the results of your work, also with regard to third party patent rights. We recommend that sufficiently thorough tests be carried out to ascertain whether the product described will meet the requirements of your particular case.

Please also note our Terms of Sale, Delivery and Payment. This Product information replaces all previous issues.



Breslauer Weg 123  
D - 82538 Geretsried • GERMANY

Fon +49(0) 81 71 - 3456 - 0  
Fax +49(0) 81 71 - 3456 - 26

Email [info@alpina-silicone.de](mailto:info@alpina-silicone.de)  
Web [www.alpina-silicone.de](http://www.alpina-silicone.de)