

Silicone processing: New products for the production of individual liners



Individual processing with the material silicone

Silicone is now one of the established materials in orthopedic technology. The starting point in the production of silicone is silicon (chem. abbreviation: Si), which is obtained in combination with oxygen (O₂) from various natural products such as sand, pebbles or quartz. In addition to its excellent physical properties, silicone has numerous other advantages – it is extremely durable, easy to care for and optimally tolerated by the skin and body.

In addition to the raw material itself, high-quality accessories and tools are necessary for processing silicone.

With the new products in the field of silicone processing, the orthopedic technician achieves first-class results in a very short time.

The new RTV Silicones

With the new RTV Silicones 5 Shore A (81E31/1 and 81E32/2) high-quality and individual liners can now be produced! The liquid, transparent silicone can be colored with Pacolor if required, allowing numerous design options.

The mixing ratio of the two components A and B is always 1:1.

For optimal processing we recommend the stirrer with vacuum 90E20.

The new RTV Silicones 5 Shore A are suitable for the production of individual liners. They consist of transparent, liquid RTV Silicone 5 Shore A, are biocompatible and can be colored with Pacolor if required. The difference between the two new products is the processing time:



RTV Silicone 5 Shore A 81E31/1

Content: 2 x 500 gr

Working time: 20 minutes

Demoldable after 60 minutes

Application: transtibial liner



RTV Silicone 5 Shore A 81E32/2

Content: 2 x 1 kg

Working time: 45 minutes

Demoldable after 3 minutes

Application: transfemoral liner

Seminars on the topic

„Silicone RTV Liner“

At the Streifeneder ortho.training center in Emmering near Munich, orthopedic technicians can expand their knowledge throughout the year and learn new techniques and tricks in exciting workshops.

In the „Silicone RTV Liner“ seminar, the basics for producing customized liners are taught:

- plaster processing,
- creation of the casting mold
- casting of a vacuum liner under vacuum
- incorporation of the pin cup and fabric lamination

All information and current dates concerning the training offers are available online at www.streifeneder.com/training

For further work steps, such as the production of a suitable liner coating, these products now supplement the range:

RTV Silicone glue 81E29

- Material: viscous liquid RTV Silicone
- Application: 1 component for bonding fabric laminations in combination with 81E30 on liners and for sealing
- Characteristics: heat stable, flexible at low temperatures, electrically insulating



Extrusion gun for RTV Silicone glue 81E29/E1

- for pressing out raw material from cartridges
- including suitable lubrication press adapter



Silicone thinner 81E30

- Material: liquid silicone thinner
- Application: for thinning silicone glue 81E29 (e.g. applying fabric lamination to liner)
- Characteristics: transparent, liquid



Practical tip for the workshop:

The gentle silicone cleaner „mild formula“ 83E6 is suitable for quick and thorough cleaning after processing with silicone products.

Streifeneder
ortho.production GmbH
Moosfeldstraße 10
82275 Emmering
Germany
T +49 8141 6106-0
F +49 8141 6106-70
export@streifeneder.de
www.streifeneder.com/op



300W167/E 2020-08

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