

SIPORTHO 20, 35 & 50

SIPORTHO 20, 35 and 50 are elastomers of silicone polymerizing at room temperature by polyaddition reaction.

They are available in the form of two-component paste that can be mixed by hand and harden in 4 minutes. The resin is white and the hardener is flesh color.

Two types of hardness are available: 25, 35 and 50 Shore A
The final polymer has:

- Good reproducibility of details
- Good mechanical properties
- High resistance against inorganic chemical agent and UV radiations
- Good demolding properties

Applications in prosthetic and orthotic: designed to make orthoplasties, hole patching in RTV silicone molding, molding or copy.

Implementation

Parts A & B have to be mixed together in a 1: 1 ratio by hand, until obtaining a homogeneous beige paste. Mix slowly to avoid formation of air bubbles.

The paste does not flow and can be applied like a putty by hand or with a spatula.

Be careful: Handle with vinyl gloves. For mixing, use exclusively plastic or steel utensils.

The product can be inhibited in contact with: Latex gloves, Heavy metal salts, Sulphur and derivatives, Catalysts of epoxy resins, Amines (this list is not exhaustive, and we always advise a trial run).

No emission of hazardous substance is released before or after polymerization.

After complete hardening, the paste remains flexible and can easily be demolded thanks to its intrinsic non-adhesive nature and mechanical properties.

If the temperature of the components is around 20°C, the polymer characteristics are the following:

MIXING RATIO resin/hardener	DENSITY (g/L)	HARDNESS (shore A)
1 : 1	1.4 - 1.5 - 1.6	25 - 35 - 50



Characteristics of the polymerized product

Hardness shore A : approx. 25 (Siportho 20) and 35 (Siportho 35) and 50 (Siportho 50)

Density (g/L): approx. 1.4 (Siportho 20) and 1.5 (Siportho 35) and 1.6 (Siportho 50)

Reactivity

PARAMETERS	DURATION*
Mixing time	20 sec - 1 min
Full hardening time	≈ 4 min

(*) measurements made at 20°C

Characteristics of the components

SIPORTHO RESIN:

- Chemical base : pasty RTV silicone
- Color : white

SIPORTHO HARDENER:

- Chemical base : pasty RTV silicone
- Color : flesh color

Packaging

PACKAGING	SIPORTHO 20
SIPORTHO 20 Resin 250 g, 500 g, 25 kg	SIP R01, R02, R25
SIPORTHO 20 Hardener 250 g, 500 g, 25 kg	SIP D01, D02, D25

PACKAGING	SIPORTHO 35
SIPORTHO 35 Resin 250 g, 500 g, 25 kg	SIP R11, R12, R125
SIPORTHO 35 Hardener 250 g, 500 g, 25kg	SIP D11, D12, D125

PACKAGING	SIPORTHO 35
SIPORTHO 50 Resin 250 g, 500 g, 25 kg	SIP R51, R52, R525
SIPORTHO 50 Hardener 250 g, 500 g, 25kg	SIP D51, D52, D525

Storage, handling and safety

In its original packaging, the silicone elastomer SIPORTHO is guaranteed 24 months if both components are stored away from light, humidity, well closed and at a room temperature below 30°C.

Rather use these products as soon as they are open. Usual health and safety conditions must be applied during the handling of the SIPORTHO. To do so, please read carefully our H&S Data Sheet, as well as the information given on the product's label.

Information contained in this document is supplied in good faith and based on our current knowledge. It is for indication and not formal constraint, in particular if this product is not used according to the applications expressed in this technical index card. A preliminary test will always be advised to be sure that the product corresponds to the customer's requirements.

The user of this product undertakes to respect the current legislation for the elimination of waste.

Custom's codes

SIPORTHO	39100000
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