COPSIL SOCKET

Fluid translucent silicone, resistant, easy to demold for soft-sockets, mold making or prototyping.



COPSIL SOCKET is a very fluid silicone elastomer with excellent mechanical properties and a dry contact.

It consists of a two-component system - resin and hardener - mixing in equal parts and cross-linking at room temperature by polyaddition reaction with a platinum complex catalyst. Its cross-linking can be speed up by heat.

Easy to use thanks to an extreme fluidity and a simple mixing ratio, this product is intended for the manufacture of soft sockets (in orthopaedics), moulds that perfectly reproduce the details, and resistant parts.

Process: casting, spraying, filling with **COP gelling agent**

Mixing of components

The weighing of the two components must be done in the same container, one after the other, respecting most precisely the mixing ratio.

The mixing will be done either manually or with a mechanical mixer running at low speed (less than 300 rpm) to avoid the incorporation of air bubbles.

A two-component casting machine such as **Silijet** can of course also be used respecting the mixing ratio.

Casting and reactivity

The crosslinking reaction for polyaddition silicones catalyzed with platinum complex can be inhibited by contact with certain materials, i.e. products with natural rubber vulcanized with Sulphur (DO NOT use latex gloves, only vinyl or nitrile gloves), from chlorine, from certain synthetic rubbers, from certain polycondensation silicones catalyzed with tin salts, from certain plasticizers, from amines used as hardener in epoxy resins, plastiline, etc.

Characteristics of the polymerized product

Hardness: 40 Shore A

Maximum elongation in % :
- On unnotched rings : 170
- On notched rings : 70

Maximum resistance in N/mm² :
- On unnotched rings : 1.7
- On notched rings: 0.6

Characteristics of the liquid product

Aspect :
Transparent, slightly translucend for both the resin and the hardener

Density :
Approx. 1 for the two components

Viscosity at 20°C in mPa.s:
- Resin : 3 300 mPa.s
- Hardener : 3 200 mPa.s
- Mix : approx. 3 250 mPa.s

Mixing ratio in weight :

Resin	100 parts
Hardener	100 parts

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This list is not exhaustive, and we always advise a trial run.The mechanical characteristics of the COPSIL SOCKET are stable after 24 hours. It can be considerably reduced by placing the mold in an oven. The temperature not to be exceeded is 135°C.

COPSIL SOCKET's reactivity:

TIME	
Working time at 20°C	30 min
Tack-free time at 20°C	40 min
Demolding time at 20°C	1h

Packaging

COPSIL SOCKET is available in 500 g bottle, in 5 kg or 25 kg buckets and in 2 x 200 ml cartridges, under the following references:

NOM	PACKAGING	REFERENCES
COPSIL SOCKET	KIT 1 KG (500 g + 500 g)	CSS 01
	KIT 10 KG (5 kg + 5 kg)	CSS 10
	KIT 50 KG (25 kg + 25 kg)	CSS 50
	CARTRIDGES (2 x 200 ml)	CSS C400

Storage, handling and safety

In its original packaging, the silicone elastomer COPSIL 20 is guaranteed 12 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 COPSIL 20. 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 code

COPSIL SOCKET resin & hardener	39100000