

COPSIL DUPLICATOR

The silicone elastomer COPSIL DUPLICATOR is a technical RTV silicone with high mechanical properties.

COPSIL DUPLICATOR is a two-component system (resin and hardener) to be mixed in equal parts. It cures at room temperature by polyaddition reaction with a platinum complex based catalyst. This reaction can be accelerated by heat.

COPSIL DUPLICATOR complies with cytotoxicity tests (ISO 10993-5 standard) and is designed to make copy of body part directly on the skin.

Mixing of the components

The weighing of the components must be done in the same container, one after another. The mixing ratio must be respected as precisely as possible. The mixing will be done manually with a spatula.

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 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...

This list is not exhaustive, and we always advise a trial run.

The mechanical characteristics of the COPSIL DUPLICATOR are stable after 24 hours.

This time can be considerably reduced by placing the mold in an oven at a maximum temperature of 135°C.

TIME	COPSIL DUPLICATOR
Working time at 20°C	3 min
Demolding time on skin	10 min
Final hardness at 20°C	15 min



Characteristics of the polymerized product

Hardness Shore A: approx. 22

Maximum elongation in %:

- on unnotched rings: approx. 500
- on notched rings: approx. 480

Maximum resistance in N/mm²:

- on unnotched rings: approx. 2.6
- on notched rings: approx. 2

Characteristics of the liquid products

Aspect:

Product in paste form (blue resin, white hardener) easily workable with a spatula.

Density:

Approx. 1 for the two components.

Mixing ratio in weight:

Resin	100 parts
Hardener	100 parts

Packaging

The silicone elastomer COPSIL DUPLICATOR is packed in 500 g pots or in 5 kg buckets.

NAME	PACKAGING	REFERENCES
COPSIL DUPLICATOR	KIT 1 KG (500 g + 500 g)	DUP 01
	KIT 10 KG (5 kg + 5 kg)	DUP 10

Storage, handling and safety

In its original packaging, the silicone elastomer COPSIL DUPLICATOR is guaranteed 6 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 DUPLICATOR. To do so, please read carefully our H&S Data Sheet, as well as the information given on the product's label.

Customs' code

COPSIL DUPLICATOR resin & hardener	39100000
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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.