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## ZHERMACK ZA 00 TRANSLUCIDE

### **Description and key features**

ZA 00 TRANSLUCIDE is a 2-component polyaddition RTV silicone rubber that vulcanises at room temperature. Indicated for duplicating models with small cut-outs.

The most important property of the product to be vulcanised is its remarkable fluidity.

The most important properties of the vulcanised product are:

- High chemical resistance to the aggressive components of some resins;
- Extremely high tear strength (this property guarantees high wear resistance);
- High accuracy in reproducing very small details;
- High dimensional stability in time and non-deformability;
- Remarkable resistance to high temperatures and ageing;
- Excellent anti-stick effect.

### **Main application areas**

- Mould making and model making (due to its remarkable reproduction accuracy, high dimensional stability and high mechanical force)
- Electro-mechanical (due to its ability to dampen vibrations and its resistance to high temperatures).
- Podiatry (for its high softness and compatibility with the skin).

### **Operating instructions**

Take the two-component products (base and catalyst) and shake before use. Weigh an equal quantity of catalyst and base (e.g. 100 g of catalyst and 100 g of base; within an error range of 5%, the final result does not change). When removing the product from the container, it is necessary to use two different spoons for each component to avoid contamination of the product. Once the product has been weighed and it is certain that the base and catalyst are the same, the two components are placed in a container and mixed thoroughly. It is important to check during mixing that no residue remains on the base and sides of the recipient. Mix energetically until the colour of the product is homogeneous. Once mixed, the product is poured into the mould, preferably 30 cm above the receiver. The processing time runs from the start of mixing at 23°C. It is recommended to degas the mixture to avoid air bubbles. If the quantity used is less than necessary, wait for the complete curing of the silicone and then proceed with adding the remaining silicone. The material will adhere to the silicone without changing the end result.

The curing time is the time the silicone needs to vulcanise at 23°C (see table below). After the curing time has been completed, we can separate the model from the mould. If necessary, use compressed air to facilitate this separation. It is important not to force this separation with sharp objects that may deform the final mould. The silicone rubber is compatible with all plasters, coatings, polyurethane resins and acrylic resins.

Note: The working time and thus the curing time are reduced if the temperature is higher than 23°C (e.g. if the temperature is 40°C, the working time is halved and the curing time is approximately halved). If the temperature is lower than 23°C, both the working time and the curing time increase significantly. (E.g. if the temperature is 4°C, the working time doubles and the curing time is shown three times at 23°C).

### **Key recommendations**

The exact ratios 1:1 must be respected in order to obtain the right times and not to change the final characteristics of the product. The surfaces with which the material comes into contact must be perfectly clean, free of grease and dry.

NB: Before use, we recommend homogenising the two components to avoid sedimentation.



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## Chemical and physical properties

Vulcanised product	
Mixing ratio	1: 1
Viscosity of pre-catalyst mixture	1500 cP
Mixing time at 23°C (73°F)	1 min
Operating time at 23°C (73°F)	6 min
Curing at 23°C (73°F)	50-60 min
Shore A hardness after 24 hours	0 sh A
Tensile strength	1.07 N / mm <sup>2</sup>
Elongation to fracture	550%
Tear strength	5 N / mm

## Shelf life

The ZA 00 TRANSLUCIDE silicone is guaranteed for a period of 18 months if correctly stored at a temperature of 5°-27°C (41°-80°F).

Close the bottles after use, do not twist the caps or lids between the base and catalyst.