

# SILICONES

## and more



### Silicone Addition Clear 25 Fast

Crystal clear silicone which are suitable for flexible infusion of LEDs and optical elements. These silicones are also very suitable for simulation of water in aquarium sets and windows for miniatures.

#### Description

The Silicones A Crystal clear 25 is a 2-component (Platinum) addition curing silicone which cures at room temperature. The silicones are, after mixing, very liquid and crystal clear. Because of the low shrinkage and very good clarity these silicones are ideal for potting of electronics, optical elements or as a mold for models without undercuts that need to be cut out.

This version is quicker than the normal one. It also suffers less from cure inhibition and is therefore more suited for use in less than ideal situations.

#### Technical data

Mixing ratio (weight)	[A: B]	1: 1
Pot Life @ 23 ° C	[Min]	20-40
Demould time@ 23 ° C	[Hours]	4
Viscosity @ 23 ° C	[cSt]	4000
Color		Clear
Hardness	[Shore A]	23-26
Density	[g / cm <sup>3</sup> ]	1.02
Tensile strength	[Kg / cm <sup>2</sup> ]	0.5

Note: Pot life / de-mould time is highly dependent on temperature! At a higher temperature, the processing time and de-mould time are shorter.

#### Processing

The Silicone A and B component can easily be mixed by hand or by machine. Mix the A and B component carefully and in the indicated ratio (100 parts A and 100 parts B by weight). Process the mixture within the pot life and demould only after it is cured complete. Alternatively, you can speed up the curing process by placing the whole mould in an oven. Please note that air bubbles will then have less time to escape the casting.

#### Extra information

Trapping of air bubbles can be prevented best by placing the silicone under vacuum immediately after mixing. To prevent air bubbles, stir the A and B component well but slowly without stirring in air. We advise to use a figur of 8 motion. If you want to reduce the Shore (hardness), you can add silicone oil from the shop. Please note that oil does not bind to the silicone network and may over time bleed from the silicone.

If you do not want to pour the silicone spatula but you can add Silicone Thixo A (note: not Silicone Thixo C !!). You can also add fumed silica. You can silicone intense colors with silicon dye.

The silicon might obtain a very slight yellow hue when used at elevated temperatures (>80 ° C).

Please note: This is an addition curing silicone. This type of silicones may experience cure inhibition when coming into contact with sulfur, nitrogen, amino groups and metl salts. If you are not certain that the products you use (including gloves, spatulas and cups) contain these ingredients, please do a little test first!

#### Durability

Provided that the silicone in sealed packaging, stored cool and frost-free, the shelf life is tenminste1 year.

#### Safety

If you use silicone frequently we advise the use of gloves and to work in a properly ventilated area. For safety information see the safety data sheet.

### Characteristics

- Fast
- Less susceptible to cure inhibition
- Low shrinkage of <0.1%
- Very fluid and self deaerating
- Crystal clear
- Suitable for potting
- Refr. Index @ 25 ° C 1.406