



## Technical Date Sheet mold making silicone

### DESCRIPTION

RTV2 is a room temperature two-part silicone rubber in condensation type. It's also known as two-part silicone rubber, Part A is a flowable liquid silicone, Part B is the curing agent (Tin catalyst). Its general use is mold making. Room temperature cure.

### PROPERTIES

- \* Good operability, easy to demold and Moderate hardness.
- \* High tensile and high tear strength.
- \* Flexibility.
- \* Good application time.

### Application Areas/Suggested Uses

- \* Polyester (furniture, sculpture, ...)
- \* Epoxy (model molds, samples, ...)
- \* Plaster jobs
- \* Artificial stones
- \* Polyurethane



### Mixed Physical Properties:

Color		Transparent/white
Pot life (mins)	at 25°C	30-40
Curing time		3-5hrs (under 25°C)
Tensile strength (MPA)		> 4
Tear strength		>23
Shrinkage rate		< 0.25 %
Viscosity (mPa.s)	at 25°C	20000±4000
Hardness (Shore)	at 25°C	20±2
Mix ration(per)	by weight	2%
Elongation		> 500%

### Processing/How to use General Information

Step 1: prepare the original molds

Prepare a perfect mold and clean it thoroughly.

\*Notes: Make sure your original molds and operating tools are cleaned to avoid problems during the process.

Step 2: Take 100 G part A and 2 G part B and mix them thoroughly.

\*Notes: Mixing the two parts is very critical, please follow these steps strictly:

1.Measure the two parts exactly by a digital scale. Making mistakes in weighting, may cause problems.

Step 3: Vacuum pumping

Without any exceptions, this step takes less than 10 minutes. Otherwise, it will cause cross linking reaction, and no more further steps will be available.

Step 4: Pouring the cast or Brush operation

\*Notes: 1. For simple pattern products, we suggest pouring operation method, which will be very easy to operate and demold. Pourable silicone requires low viscosity which will be easy to flow smoothly and easy to de-air.

2. For delicate pattern products we suggest using the brushing operation way, which can copy the



pattern exactly. Brush able silicone require high viscosity which won't be easy to flow away and will be easy to brush.

3. We suggest to set the silicone mold for another 12 hours after demolding before you put it into a large production. Warm Tips:

- \* Do not mix with liquid condensation silicone rubber or even the tool which used for such materials.
- \* Do not mix with organic materials containing N, S, P organics and ionic compound like Sn, As, Hg, Ph. (Do not smoke when you use this addition silicone rubber)
- \* Do not add any pigment, powder or any other additives to the silicone rubber without testing to prevent uncured problem.

Package

2% mix ratio: 25KG/drum + 1KG hardener:

### Shelf time

Twelve (12) months if stored in dry and cool place by original package under 25°C