

## CALSIL Machinery and Equipment

### RTV PC PASTE



#### 1. Product Description:

Calsil® RTV PC PASTE is a putty RTV-2 silicon rubber, that cures at room temperature with a poly-condensations process using our calsi® CAT. PASTE..

#### 2. Applications

It is particularly recommended for reproduction of vertical models or large scale (statues) or not-movable objects where it is necessary to the mark. The reproduction is a precise replica of original model.

#### 3. Typical Properties (not for sales specifications, please contact us prior to writing sales specs)

Physical Properties	Units	Values		
Appearance		Paste		
Colour		White		
Odour		odourless		
Solubility		Not mixable in water, dispersible in most of solvents		
Specific gravity	g/cm <sup>3</sup>	1.20 ± 0.02		
Penetration	Mm/10	220 ± 15		
Curing properties with CALSIL® CAT PASTE, CAT PASTE NEW and RAPID				
		<b>CALSIL® CAT. PASTE</b>	<b>CALSIL® CAT. PASTE NEW</b>	<b>CALSIL® CAT. PASTE RAPID</b>
Mix ratio		100:5	100:5	100:3
Working time		30' ÷ 60'	60' ÷ 90'	< 3'00"
Setting time		2 ÷ 4 H	4 ÷ 6 H	10' ÷ 15'
Properties of the cross linked product				
		<b>CALSIL® CAT. PASTE</b>	<b>CALSIL® CAT. PASTE NEW</b>	<b>CALSIL® CAT. PASTE RAPID</b>
Hardness 24h	Shore A	27 ± 3	25 ± 3	30 ± 3
Hardness 3 days	Shore A	30 ± 3	30 ± 3	30 ± 3
Elongation	%	400 ÷ 500	400 ÷ 500	N.D.
Tensile strength	Mpa	1.8 ± 0.3	1.8 ± 0.3	N.D.
Tear strength	KN/m	10.0 ± 2.0	10.0 ± 2.0	N.D.
Shrinkage (after 24h)	%	<0.7	<0.7	N.D.

## 4. How to Use

Weigh the required quantity of CALSIL<sup>®</sup> RTV PC PASTE and add 5% CALSIL<sup>®</sup> CAT. PASTE. Mix the rubber mass over on itself and knead it energetically with your fingertips until color is even, without striped. Then apply on the model for copying to form a thin layer of 8-15 mm. if you want to get more thickness, repeat after 2-4 hours. It's advisable to work with small amounts each time (300-600gr). Before using the paste it should be applied to the prepared model (cleaned/ degreased) a silicone fluid (by casting it) and let it form a thin film. The resulting mold is elastic, with good mechanical properties and good stability in time. When the silicone rubber mold is done, proceed with the construction of the counter-mold, which can be plaster, resin or other material. To obtain a very rapid curing use CALSIL<sup>®</sup> CAT. RAPID (3% weight) instead of CALSIL<sup>®</sup> CAT. PASTE. (curing time about 3 minutes).

### *Other recommendations:*

- we recommend to clean the sample to copy from dust and dirt. If the sample is made of glass or ceramic, it's possible that the silicone rubber sticks to the model. To avoid it, we recommend to use the release agent: CALSIL<sup>®</sup> R-AG1.

## 5. Handling

This document does not contain safety precautions. Before handling this material, please read the Material Safety Data Sheet, check the label on the container, and conform to the safety, physical and hazard guidelines and precautions. The Material Safety Data Sheet is available from your nearest CALDIC office.

## 6. Storage and Shelf Life

The product, when stored under appropriate conditions, is stable and usable for 12 months. We suggest to keep the products in their original packaging, well-closed at a temperature between +7°C and +27°C, in well-aired places. Mixing it with a clean shaker before use.

## 7. Packaging

CALSIL<sup>®</sup> RTV PC PASTE is available in pail kg 25 and kg. 5.

CALSIL<sup>®</sup> CAT PASTE is available in tubes of gr 50.

CALSIL<sup>®</sup> CAT PASTE RAPID is available in tubes of gr 40.

CALSIL<sup>®</sup> CAT PASTE NEW is available in tubes of gr 100.

## 8. Restrictions

This ingredient is solely proposed in industrial applications.

It is not suitable to be used in cosmetic, medical, human injection, pharmaceutical or food applications.

## 9. Limited Warranty PLEASE READ CAREFULLY

The information herein is offered in good faith. It is believed to be accurate at the time of shipment.

It should not be used as a substitute for the customer's test, the customer bears the responsibility to ensure that the product matches the intended application is safe and achieves the desired benefits.

The product warranty is limited to the refund value of the purchase or the replacement only when it is demonstrated that the product is out of the agreed sales specifications.

CALSIL<sup>®</sup> is a registered trademark of CALDIC BV. All rights reserved.

For more information, please contact our nearest office:

[calsil@caldic.com](mailto:calsil@caldic.com)

[www.calsilsilicones.com](http://www.calsilsilicones.com)