

# RHODORSIL® RTV LABORATORY REPRODUCTION SILANOL CURE PUTTY LAB

**Description** The RHODORSIL® RTV Dental Duplication by silanol cure Putty Lab are two component silicones elastomers which polymerize at room temperature by a silanol curing reaction.

**Applications** These products are specially formulated for use in dental laboratories (key mould technique). After having been mixed with the catalyst and having formed a cured product, The RHODORSIL® RTV Dental Duplication by silanol cure Putty Lab have an elastic appearance with high hardness.

**Advantages**

- Excellent details reproduction
- Good mechanical properties
- No release of toxic substances during and after curing
- High resistance to inorganic chemicals and UV rays
- Good release properties with organic resin and hydrated plaster of Paris
- Biocompatibility and no toxicity

## Characteristics 1. Characteristics of the non cured product

Properties	RTV 4280	RTV 4285 LD	RTV 4290	CATA 4200	CATA 4210	CATA 4211
<b>Appearance</b>	Paste			Gel	Liquid	Antireversion liquid
<b>Color</b>	White	Yellow White	White Blue	Red	Transparent	

## 2. Polymerization

Mix ratios

RTV 4280 RTV 4010		RTV 4285 LD RTV 4018		RTV 4290 RTV 4028	
Cata 4200	Cata 4210	Cata 4200		Cata 4211	
3	1	3		1	

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With the hereabove ratios :

Properties	RTV 4280	RTV 4285 LD	RTV 4290
<b>Mixing time*</b> (at 23°C, seconds)	30''00		
<b>Maximum working time</b> (at 23°C, Minutes, ISO 4823)	1'15	2'00	2'00
<b>Demoulding time</b> (minutes, ISO 4823, approx.)	3'	2'30	2'30

**Remark:**

\*Higher temperatures reduce the times, lower temperatures extend the times.

### 3. Characteristics of the cross linked product

On a 6 mm thick specimen

Properties	RTV 4010		RTV 4015	RTV 4018
	Cata 4200	Cata 4210	Cata 4200	Cata 4211
<b>Shore A Hardness</b> (points, after 8min, ASTM D 2240/C, approx)	60	60	70	90
<b>Shore A Hardness</b> (Points, after 24h, ASTM D2240/C.)	80	80	85	65
<b>Linear Shrinkage</b> (%, ISO 4823)	< 1.0	< 1.0	< 1.0	< 1.0

### Processing

Mix the RHODORSIL® RTV Dental Duplication by silanol cure – Putty Lab – with the CATALYST according to the mixing ratio.

Mix by hand both components until a uniform colour is obtained.

**Warning:** for mixing use only clean stainless steel or plastic vessels. Crosslinking of RTV vulcanising by an addition cure reaction may be inhibited by contact with products like:  
- heavy metal salts, amines, sulphur and derivatives, catalysts of epoxy resins, latex gloves.

## RHODORSIL® RTV LABORATORY REPRODUCTION SILANOL CURE PUTTY LAB

### Packaging

The RHODORSIL® RTV Dental Duplication by silanol cure Putty Lab are sold in the following various packaging:

- 25 kg drums
- 5 kg packs
- 1.5 kg pot

The Catalyst are sold in the following packaging:

- **Catalyst 4200** : 22 gr and 40 gr tubes
- **Catalyst 4210** : 1 kg and 30 ml bottles
- **Catalyst 4211** : 30 ml

### Storage and shelf life

When stored in its original unopened packaging, at a temperature of between – 5°C and + 30°C :

- **RHODORSIL® RTV Dental Duplication by silanol cure Putty Lab** may be stored for up to 24 months
- **Catalysts** may be stored for up to 12 months from the date of manufacture clearly marked on the packaging.

Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

**Part used drums should be resealed between each use.**

### Safety

Please consult the material Safety Data Sheet

Visit our website [www.bluestarsilicones.com](http://www.bluestarsilicones.com)

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