

Basis                      **Condensation curing silicone casting compound**  
**Silicone rubber**  
**Curing agent**

Colour                      Blue

## Applications

- Flexible parts
- Casting mould for gypsum
- Casting mould for plastic
- Casting mould for wax
- Casting mould for ceramic materials
- Casting of flexible gaskets
- Cast-in of electrical parts
- Art casting

## Properties

- Condensation curing
- High strength
- In-mould releasing
- Flexible
- Gel time and curing time can be modified by using SR 2 catalyst standard or catalyst fast

## Processing data

Product		Mixture Silicone SR 2	Base Silicone Rubber	Curing Agent Catalyst
Colour		Blue	White	Blue
Mixing ratio	p.b.w.		100	10

Properties			Value Catalyst Standard	Value Catalyst Fast
Viscosity at 23°C	mPas	13500		
Relative density at 25°C			1.2	1.2
Gel time at 23°C	min.		30 - 45	8 - 10
Curing time at 23°C	hrs.		5	2

## Physical data\*

Properties	Inspection Requirement	Unit	Value Catalyst Standard	Value Catalyst Fast
Elongation to break	ISO 37	%	520	420
Tensile strength	ISO 37	MPa	4.6	3.7
Tear strength		KN/m	23	21
Shore Hardness	DIN 53505	Shore A	22	22
Linear shrinkage	Internal	%	0.2 – 0.5	0.2 – 0.5

\*Cured for 7 days at 23°C

## Sales units (packages)

Units	Base	Silicone rubber	5 kg / 20 kg
	Curing agent	Catalyst (standard)	500 g / 2 kg
		Catalyst (fast)	2 kg
	Thixotrope	Thixo additive	500 g

## Processing Instructions

Apply release agent to the master model once you have removed any loose paint or dirt. Use a single brush coat on the bare plaster - wet or dry. Allow the release agent to dry for about 20 minutes before pouring the Silicone SR 2. If the model is made of wood, clay or is painted, use a wax spray as a release agent.

Mixing Silicone SR 2 is easy. It is supplied in 22 kg and 5.5 kg kits so you don't have to use any scales. If you want to part-mix, the ratio is 100 parts of base to 10 parts catalyst, by weight. Simply pour the blue catalyst on top of the white base and start by folding the two components together gently; as they become inter-mixed you can mix with more vigour until a uniform blue colour is attained. Pay particular attention to the sides and base of the container. When you think it is mixed, pour the entire contents into another clean container and re-mix, this is the only way you can be sure the material is thoroughly mixed.

You can now either pour the Silicone SR 2 over the model as it is, or you can add the thixotropic additive to turn it into a non-slumping paste which can be brushed onto the model. Approximately 1 teaspoonful per 1 kg of Silicone SR 2 is sufficient - add a bit more if you need to - it's not critical. The thixotropic additive may go solid if it gets cold, a bit like lard, simply warm it up to get it liquid again. Mix in the thixotropic additive for about 90 seconds or until the Silicone SR 2 starts to stiffen. If you are pouring the Silicone SR 2, pour in a long steady stream, which helps burst any air bubbles introduced while mixing.

## In General

Silicone SR 2 is a silicone moulding compound developed for plaster casting, resin casting and the model making industries. Moulds made from Silicone SR 2 will give a high quality reproduction with virtually no shrinkage and no risk of the plaster ever gripping to the mould surface.

It has been designed to be easy to mix by hand with colour-coded components to offer a visual aid to ensure mixing is complete. The two components mix easily and because of its low viscosity Silicone SR 2 can be used without the use of a vacuum chamber.

It also has a thixotropic additive to enable you to make skin moulds or to mould on site.

## Storage

At room temperature (18 - 25°C) and in closed original containers storage life is 6 months.  
Partly used containers must always be closed and materials should be used as soon as possible.

## Safety Measures

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material. Please follow all safety advice!

## Waste Disposal

According to arrangement with local authorities cured material can be disposed of as domestic or commercial waste. Non-cured products are waste which is subject to inspection and has to be disposed of accordingly. In case of further questions please do not hesitate to contact our Department of Product Safety.

The instructions and recommendations are given in good faith and are based on long experience and careful tests. Since the conditions of use are beyond our control, and due to versatility of applications and working methods, we can't give any guarantee. All information is non-binding and provides no guarantee for special characteristics or properties of the product. Despite information given from **ebalta** the customer has to make his own tests regarding applications and processing. If any special warranty is requested, written agreement on this subject is essential.

**ebalta** UK Limited . B2 Langham Park, Trent Lane . Castle Donington . Derbyshire DE74 2UT  
t: +44 1332 814700 . f: +44 1332 814775 . e: info@**ebalta**.co.uk . w: www.**ebalta**.co.uk