Technical Datasheet

Silicone SR 2-1

Basis	**Silicone moulding rubber package with three colour coded catalysts for varying cure speeds**
Colours	Blue – Standard Catalyst Green – Fast Catalyst

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
- Excellent flow properties
- Replicates fine details
- Flexible
- Excellent resistance to aggressive casting resins such as polyester and polyurethane

Processing data

Product		**Silicone SR 2-1 Base**	**Silicone SR 2-1 Standard Catalyst**	**Silicone SR 2-1 Fast Catalyst**
Colour		White	Blue	Green
Mixing ratio	**p.b.w.**	100	10	10

Properties			**Standard Catalyst**	**Fast Catalyst**
Relative density at 25ºC			1.22	1.22
Pot life at 23ºC	min.		50	10
Curing time at 23ºC	hrs.		10	3

Physical data*

Properties	**Test Method**	**Unit**	**Standard Catalyst**	**Fast Catalyst**
Elongation at break	ISO 37	%	550	500
Tensile strength	ISO 37	MPa	3.5	3.0
Tear resistance		N/mm	20	18
Shore Hardness	DIN 53505	Shore A	20	20

*Cured for 7 days at 23ºC

All values are typical and should not be accepted as a specification

Sales units (packages)

Units	Base	Silicone rubber	20 kg / 200 kg
	Curing agent	Standard Catalyst (blue)	2 kg / 20kg
		Fast Catalyst (green)	2 kg / 20 kg

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 2-1. If the model is made of wood, clay or is painted, use a wax spray as a release agent.

Mixing Silicone SR 2-1 is easy. The mix ratio when using any of the catalysts is 100 parts of base to 10 parts catalyst, by weight. Simply pour the selected 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 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 pour the Silicone SR 2-1 over the model in a long steady stream, which helps burst any air bubbles introduced while mixing.

In General

Silicone SR 2-1 is a silicone moulding compound developed for plaster casting, resin casting and the model making industries. Moulds made from Silicone SR 2-1 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 2-1 can be used without the use of a vacuum chamber.

Storage

At temperatures 18 - 40ºC, and in closed original containers storage life is 12 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.

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