



Technical Data Sheet

SILASTIC™ RTV-3099 Mould-Making Curing Agent

Condensation-cure catalyst for non-sag, spreadable applications

Features & Benefits

- Catalyst to be used with condensation-cure mold-making bases in particular with SILASTIC™ RTV-3496 Mould-Making Base, SILASTIC™ RTV-3497 Mould-Making Base and SILASTIC™ RTV-3498 Mould-Making Base
- Very good sag resistance
- Pasty consistency for easy application
- Short cure time and quick demolding; ideal for application layer by layer

Applications

- Catalyst to be used with condensation-cure SILASTIC™ Mould-Making Bases for vertical or brush-on applications.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Form		Liquid
Color		Colorless to pale yellow
Viscosity	mPas	30
Relative density at 25°C (77°F)		1.063

Description

SILASTIC™ RTV-3099 Mould-Making Curing Agent is a condensation-cure catalyst which, when mixed with mold-making SILASTIC™ bases, will cure at room temperature by a condensation reaction. This catalyst is recommended for use with SILASTIC RTV-3496 Base, SILASTIC RTV-3497 Base, and SILASTIC RTV-3498 Base Mould-Making Bases.

How To Use

Substrate Preparation

The surface of the original should be clean and free of loose material. If necessary, and in particular with porous substrates, use a suitable release agent such as petroleum jelly or soap solution.

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SILASTIC™ RTV-3099 Mould-Making Curing Agent

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Mixing

Mix 100 parts of SILASTIC RTV-3496, 3497 or 3498 Mould-Making Base with 3 parts of SILASTIC RTV-3099 Mould-Making Curing Agent in a clean container for 1 minute until the catalyst is completely dispersed in the base. Hand or mechanical mixing can be used, but do not mix for an extended period of time or allow the temperature to exceed 35°C (95°F). Mix sufficiently small quantities to ensure thorough mixing of base and curing agent.

It is recommended that entrapped air be removed in a vacuum chamber, allowing the mix to completely expand and then collapse. After 1–2 minutes vacuum, the mix should be inspected and if free of air bubbles, can then be used.

Caution:

Prolonged vacuum will remove volatile components from the mix and may result in poor thick section cure and non-typical properties.

Applying The Mixture and Curing

Apply the mixed base and catalyst as soon as possible with a brush or with a spatula onto the original, avoiding air entrapment. The catalyzed material will cure to a flexible rubber and the mold can then be removed (see table of typical properties for details). If the working temperature is significantly lower than 23°C (73°F), the cure time will be longer.

Table 1: Typical Properties of Base and Curing Agent Mixture and of Cure Material After 2 Days at 23°C (73°F)

Base Curing Agent	Unit	SILASTIC™ RTV-3496 Base and SILASTIC™ RTV-3099 Curing Agent	SILASTIC™ RTV-3497 Base and SILASTIC™ RTV-3099 Curing Agent	SILASTIC™ RTV-3498 Base and SILASTIC™ RTV-3099 Curing Agent
Base and Curing Agent Mixture (100:3 by Weight)				
Consistency		Soft pasty, non-sag	Soft pasty, non-sag	Soft pasty, non-sag
Working time	minutes	18	16	23
Demolding time	hours	3.5	3.5	3.5
Cured for 2 Days at 23°C (73°F)				
Hardness (Shore A)		17	26	31
Tensile strength	MPa	3.2	4.2	4.3
Elongation at break	%	430	380	350
Tear strength	kN/mm	19	31	35

Handling
Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life And
Storage

Product should be stored at or below 32°C (90°F) in original, unopened containers.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Not intended for human injection. Not intended for food use.

SILASTIC RTV-3099 Curing Agent is an industrial product and must not be used in food molding, dental and human skin molding applications.

Health And
Environmental
Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

<http://www.silastic.dow.com>

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