

BLUESIL RTV 3325 P+ CATA 83

Description **BLUESIL RTV 3325 P** is a two-component silicone elastomer which upon reaction at room temperature through the addition of **BLUESIL CATA 83** acquires good mechanical and resilient properties.

Examples of applications Taking imprints by impression of vertical or overhanging models or whenever the model is too large to be moved.
 Finds application in the following sectors:

- Archaeology: reproduction of bas-reliefs and statues.
- Palaeontology: reproduction of fossils or stones.
- Decorations: cornices, rosettes, statuettes, candles, advertising objects

Key benefits

- Easy application
- Low linear shrinkage and good heat seal of the moulds obtained
- Easy release of the copies thanks to the anti-stick property of the silicone elastomers.

Typical properties

1. Characteristics of the non cured product

Properties	BLUESIL RTV 3325 P
Appearance	Non-flowing paste
Colour	White grey
Density (at 23°C, approx.)	1.20

Properties	BLUESIL CATA 83
Appearance	Fluid paste
Colour	Lemon yellow

2. Polymerization

BLUESIL RTV 3325 P: 100 parts

BLUESILCATA 83: 4 parts

Working time (at 23 °C, 50 % humidity relative, minutes): 90

Demoulding time (at 23 °C, 50 % humidity relative, hours): 16

3. Characteristics of the cross linked product

Measures carried out after cross linking over 4 days at 23 °C

Mechanical Properties	BLUESIL RTV 3325 P
Shore A hardness (on a 6 mm thick specimen, approx.)	25
Tensile strength (MPa, approx.)	2.5
Elongation at break (% , approx.)	350
Tear strength (KN/m, approx.)	9
Linear shrinkage (%)	0.4

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

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Instruction of use	<p>It is advised to remix both base and catalyst before mixing them together.</p> <p>1. Mixing of the two components</p> <p>To 100 parts of BLUESIL RTV 3325 P add 4 parts by weight of BLUESIL CATA 83. The two components should be mixed by hand. In order to avoid the paste to stick upon the skin it's recommended to wet the hand with water. Mix until perfect dispersion of the catalyst into the silicone paste (no coloured smears in the mixture).</p> <p>2. Cross linking</p> <p>The best curing conditions are at 23°C and 50 % relative humidity. The use of products at higher temperatures and/or relative humidity levels will reduce the pot life and increase the setting rate. As opposed to this, lower temperatures and relative humidity levels will increase the pot life and decrease the setting time. It is recommended not to use the product at temperatures below 20°C; under these conditions, the final product performance levels will be difficult to achieve.</p> <p>At 23°C and 50% relative humidity, the moulds can be demoulded after 16 to 24 hours. In order to achieve the best possible performance levels from the moulds, it is preferable to wait for 24 hours before using them. The definitive properties will be acquired after 3 days.</p> <p>3. How to use</p> <p>Apply directly on the model by hands, be aware to achieve a good contact in order to avoid bubbles and voids.</p> <p>Models can be made of several materials, stones, concrete, terracotta etc. Even though silicone is naturally no-adhering to most materials is always recommendable to prepare the model to avoid any risk of the silicone sticking and so damaging the model. Remove dust and apply a pore filler like soapy water, waxes diluted in xylene etc.</p> <p>To improve the quality of the imprint on particularly intricate-shaped model we recommend to apply first by brush several layers of BLUESIL RTV 3325 P + BLUESIL CATA THIXO and to fill the more accentuated undercuts with BLUESIL RTV 3325 P + BLUESIL CATA 83 to better support the final mould.</p>
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	<ul style="list-style-type: none"> • BLUESIL CATA 83 is available in <ul style="list-style-type: none"> ○ Piece of 0.04 KG (0.09 LB) • BLUESIL RTV 3325 P is available in <ul style="list-style-type: none"> ○ Pail of 5 KG (11.03 LB) ○ Drum of 25 KG (55.13 LB)
Storage and shelf life	<p>When stored in its original packaging:</p> <p>BLUESIL CATA 83 may be stored at a temperature below 40°C / 104°F for up to 12 months from its date of manufacturing.</p> <p>BLUESIL RTV 3325 P may be stored at a temperature below 40°C / 104°F for up to 12 months from its date of manufacturing.</p> <p>Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.</p>
Safety	Please consult the Safety Data Sheet of: BLUESIL CATA 83 and BLUESIL RTV 3325 P

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