

## TECHSIL® RTV2420

TECHSIL® RTV2420 is a two component room temperature condensation curing silicone compound. The cured product is an exceptionally flexible rubber with very high mechanical properties and good shelf life stability. It is suitable for mould making of intricate patterns with extremely good pick up of fine details. Softer grades are better suited for use where there are deep undercuts.

### Key Features:

- High tear strength
- High detail pick up
- Easy degassing
- Good dimensional stability

### Use and Cure Information

The curing process starts as soon as the catalyst is added. Under normal conditions of temperature and humidity, typical curing characteristics are described below. If the product is to be used in contact with aggressive chemicals, such as high styrene polyester resins or epoxies, it is recommended that the rubber be allowed to cure for 48 hours before use.

### How to Use

Charge 95-100 parts by weight of Base Rubber and 5 parts by weight of catalyst into a suitable plastic or metal container. The volume of the mixing vessel should be sufficient to allow for rapid expansion which takes place during the initial degassing of the catalysed rubber. Mix thoroughly avoiding excessive air entrapment but using the colour contrast to achieve homogeneity. Stop the mixer and scrape the vessel walls a few times. To prevent imperfections due to bubbles in the cured rubber, it is advisable to de-aerate the liquid rubber by using intermittent evacuation for a few minutes. Normally after releasing the vacuum 2 or 3 times, the mass collapses naturally after which degassing should continue for only a few minutes.

### Vertical Application

TECHSIL® RTV2420 can be used to make mouldings on vertical surfaces by employing Thixotroping Agent TA2. A typical formulation for good thixotropy and approximately the same working life of the normal rubber is shown below:-

- TECHSIL® RTV2420      95-100 parts by weight
- BETA 7                      5 parts by weight
- Thixotroping Agent TA2    2-3 parts by weight

Mix the components in the above order. When using the fast cure catalyst, if degassing is required it must be done quickly after catalysation and before the addition of the Thixotroping Agent TA2. Pot life and rate of cure is slightly shorter in the presence of a TA2.

### Physical Properties

Property	Test Method	Value
<b>Uncured Product</b>		
Colour:		Beige
Appearance:		Viscous Liquid
Viscosity:	Brookfield	25000 mPas
Catalysed viscosity	Brookfield	19000 mPas
Pot Life:		75 minutes*
De-mould Time:		8 hours *

\* measured at 23+/-2°C and 65% relative humidity

### Contact Details

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<b>Cured Elastomer</b> (after 7 days cure at 23+/-2°C and 65% relative humidity)		
Tensile Strength:	BS903 Part A2	3.64 MPa
Elongation at Break:	BS903 Part A2	497%
Youngs Modules:		1.5 MPa
Modulous at 100% Strain:	BS903 Part A2	0.93 MPa
Tear Strength:	BS903 Part A3	26.24 kN/m
Hardness:	ASTM D 2240-95	22 Shore A
Specific Gravity:	BS903 Part A1	1.26
Linear Shrinkage:		0.40%
Coefficient of Thermal Expansion:		
Volumetric		738 ppm / °C
Linear		246 ppm / °C
Min. Service Temperature:		-50°C
Max. Service Temperature:	AFS 1540B	200°C

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

### Health and Safety

Material Safety Data Sheets available on request.

### Packages

TECHSIL® RTV2420 is supplied in 5 kg and 20 kg bulk containers.

BETA 7is supplied in 250 g and 1 kg containers.

TA2 is supplied in 50g, 100g, 500gm and 1kg.

Arrangements can be made to supply in other pack sizes.

### Storage and Shelf Life

Expected to be **12** months in original, unopened containers below 40°C.

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or

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