

ESQUIM RTV-491

PROPERTIES

ESQUIM RTV-491 is a silicone elastomer in two components, which crosslink when mixed at room temperature, thus obtaining a flexible, elastic final product with excellent mechanical properties.

Due to the wide number of different applications, ESQUIM has developed a full range of catalysts in order to cover all customer needs and obtain different mechanical properties changing only the catalyst.

ESQUIM RTV-491 and the catalyst chosen are widely used to produce moulds for reproducing models made in wax, ceramic, wood, metal, stone, plaster, etc., in materials such as polyester resins, polyurethane, reconstructed stone, alabaster, plaster, etc.

PHYSICAL CHARACTERISTICS

ESQUIM RTV-491

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| • APPEARANCE | Fluid paste |
| • COLOUR | White |
| • VISCOSITY at 25 °C, mPa.s | 25-40.000 |
| • SPECIFIC GRAVITY at 25 °C, g/cm ³ | 1,10 |

These values do not represent product technical specifications.

MECHANICAL PROPERTIES

	<u>CATALYSTS</u>				
	<u>CAT-431</u>	<u>CAT-421</u>	<u>CAT-451</u>	<u>CAT-SRE</u>	<u>CAT-ER</u>
• DOSAGE (Mix ratio RTV-491:Catalyst)	100:5	100:5	100:5	100:5	100:5
• WORKING TIME at 25 °C	3h	5h	3h	1h	15 min
• MOULD RELEASE TIME at 25 °C	22h	26h	24h	4h	2h
• HARDNESS (Shore A)	22	16	12	26	24
• BREAKING STRENGTH, Kg/cm ²	40	35	34	28	30
• BREAKING ELONGATION in %	350	400	550	200	250
• TEAR STRENGTH Kg/cm.	22	22	22	20	20

Maximum properties measured after seven days, at room temperature.

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APPLICATIONS

In order to use ESQUIM RTV-491 properly, the following points must be observed:

1. Use clean, dry vessel to mix base and catalyst thoroughly, using either manual or mechanical stirring and avoiding air being incorporated to the mix.
2. In order to obtain moulds free of internal voids, it is advisable to deair the mix. Using a 30 to 50 mm/Hg vacuum under the bell jar for few minutes
3. Pouring of the mix must be done carefully to prevent air from being incorporated, which would give rise to bubble formation.

PACKAGE SIZE AND STORAGE

ESQUIM RTV-491 is supplied in 1, 5, 25 and 200kg drums.

ESQUIM catalysts are offered in the appropriated dose-sizes as per above. In order to mix product and catalyst accordingly, ESQUIM offers the possibility to order the catalyst in blue version.

ESQUIM RTV-491 and catalysts have a twelve-month shelf life if stored in its original container at room temperature.

After long periods of storage, It is recommended that the product be slightly stirred before it is used. Product efficiency is not affected.

HEALTH AND SAFETY

Catalyst contain toxic tin salts. Therefore, when handling these products and mixing them with the elastomer, avoid contact with skin and splashes onto the eyes.

In case of accidental contact, rinse immediately with plenty of water and check with your doctor.

For further information, Product Safety Data Sheet is available on request.

ESQUIM, S.A. Guarantees the quality of its products, but cannot accept any liability on their performance or application beyond its control.