

RTV2 SILICONE RUBBER



R&R offers a full range of silicone rubber, room temperature vulcanized (RTV2) materials, for model and mold making. RTV2 silicone rubber is ideal for use in mold making applications including: rapid prototyping, jewelry, glass art, art sculpture, and concrete molding.

RTV2 silicone rubber is platinum-curing and composed of two components, base and catalyst, that mix together and vulcanize at room temperature.

Why use RTV2 Silicone Rubber?

- High dimensional stability over time
- Easy to use
- Most stable polymers available, offering superior reliability
- Vulcanization time can be adjusted, allowing flexible application
- Suited to polyurethane casting materials
- Products are non-toxic
- 1:1 mixing ratio formulas provide easy mixing
- 10:1 mixing ratio formula for transparency



RTV2 Silicone Rubbers Provide

- Excellent durability over time
- Excellent stability over time
- Zero shrinkage
- Mixing ease
- Increased production speed



Important Application Tip

Be aware that contact with certain material can inhibit the curing of the RTV2 poly-addition silicone rubber. Common contaminants to be avoided include:

- Natural or synthetic rubber, vulcanized with sulphur derivatives
- Poly-condensation RTV catalyzed with metallic salts
- PVC stabilizing agents
- Amine cured epoxies
- Sulphur, tin and amines derivatives

In case of doubt, carry out a small test by pouring the mixture onto a small area of the object.



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RTV2 silicone rubber	Mixing Ratio	Form	Color	Working Time	Setting Time	Hardness (ShA)
HT33	1:1	Liquid	Transparent or red	20-22 minutes	3 hours	33 ± 2
HT 42	1:1	Liquid	Grey	22-26 minutes	3 hours	42
HT 45	1:1	Liquid	Transparent	10-12 minutes	1-1½ hours	43 ± 3
XTX 45	10:1	Liquid	Transparent	90 minutes	15 hours	43 ± 2
ZA 10 Orange	1:1	Liquid	Orange	15 minutes	1 hour, 45 minutes	10
ZA 10 Translucent	1:1	Liquid	Translucent	15 minutes	55 minutes	11-13
ZA 13 Mold 45	1:1	Liquid	Translucent	40-50 minutes	2½-3 hours	13 ± 2
ZA 22 Mold	1:1	Liquid	Blue	14-17 minutes	1 hour	21 ± 2
ZA 22 Spray	1:1	Liquid	White	12-18 seconds	4½-6 minutes	22 ± 2
ZA 25 Thixo	1:1	Thixotropic	Grey	45-60 minutes	10-12 hours	26 ± 2
ZA 28 Mold	1:1	Liquid	Green	10-12 minutes	1 hour	28 ± 2
ZA 35 Mold	1:1	Liquid	Yellow	12-15 minutes	1 hour	35 ± 2
ZA 35 Mold Fast	1:1	Liquid	Light green	6 minutes	20 minutes	35
ZA 40 LT	1:1	Liquid	Green	15-20 minutes	3 hours	40 ± 3
ZA 40 Thixo	1:1	Thixotropic	Pink	6 minutes	15 minutes	40
ZA 50 LT	1:1	Liquid	Blue	15-20 minutes	3 hours	50 ± 3
ZC 20-120	5:100	Liquid		90 minutes*	24 hours*	23 ± 3
ZC 825	1:1	Liquid (high density)	White	39 minutes	20 hours	21

*The working time and setting time depends significantly on the temperature and air-humidity. They also vary depending on the size of the cured item.

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