

ZA FAST-SIL

RTV2 Silicone Rubber for industrial use.

Bicomponent addition silicone indicated for Mold making applications.

1. Main Characteristics

ZA FAST-SIL is a putty addition curing, two component silicone that vulcanize at room temperature. It presents the following special features:

- Putty
- Precision in reproduction

2. Applications

ZA FAST-SIL is indicated for use in the following applications:

- Mold making (for quick reproductions)

is the easy way to make molds and cast a wide variety of objects. Because of its heat resistance low-temperature metals such as pewter and other low melting fusible alloys can be poured directly into the rubber molds.

3. Processing

Weigh an equal amount of catalyst and base (e.g. 100 grams of catalyst and 100 grams of base; within a 5% error range the results will not change). Please keep in mind that the exact proportions 1:1 must be respected in order to guarantee the final characteristics of the product.

Once the product is weighted in equal quantities, mix energetically until the blended color is homogeneous. Once the product is thoroughly mixed, it is ready to be casted.

The working time WT (see table below), also known as “pot life”, is the recommended time for mixing/vacuuming prior to casting.

4. Important recommendations

- Before handling the product, read the safety data sheet and make sure to get all the information required for safe use.
- The platinum catalyst is contained in the component CATALYST. CATALYST and BASE components may only be used together if they have the same batch number.
- The surfaces with which the material enters in contact must be perfectly clean, free of grease and dry.
- Test the product in small scale quantity before extending the use in larger scale.
- Vaseline Oil could inhibit the product. Make a small test first.
- Exact proportions 1:1 must be respected to guarantee the final characteristics of the product.
- If necessary, use compressed air to facilitate this separation. Do not use any tools to force the separation of the model from the mold.
- The working time and setting time are reduced if the temperature exceeds 23°C (e.g., if the temperature is 40°C, the working time and setting time are approximately cut in half). If the temperature is less than 23°C, the working time and setting time increase considerably.
- Close containers after use, do not invert the caps or lids between the base and catalyst.

5. Physical and Chemical Characteristics

The figures provided are only intended as a guide and should not be used in preparing specifications.

Component CATALYST (uncured)

Properties	Specifications	Analytical Method
Color	White	Visual
Density (Metric system, 23°C/ 73°F)	1,42 g/cc	

Component BASE (uncured)

Properties	Specifications	Analytical Method
Color	Light Violet	Visual
Density (Metric system, 23°C/ 73°F)	1,37 g/cc	

Base + Catalyst (cured components) *

Properties	Specifications	Analytical Method
Color	Light Violet	
Viscosity of pre-catalyzation mixture	-	Internal Method (Brookfield)
Mixing Ratio	1:1	n.a.
Density (Metric system, 23°C/ 73°F)	1,39 g/cc	
Working time/Pot life (23°C/ 73°F) **	3,00'	Internal Method (Brookfield)
Setting time (23°C/ 73°F) ***	12'	
Shore A hardness (after 24 hours, 23°C)	38 shA	ASTM D2240
Tensile Strength (Metric System, 23°)	1,3 N/mm ²	ASTM D412
Elongation at break (23°)	200%	ASTM D412
Tear strength Die B (Metric System, 23°)	4 N/mm	ASTM D624

* Vulcanizate after 24 H at 23°C.

**The working time "WT", also known as "pot life", is the recommended time period for mixing/vacuuming prior to casting. The reported WT shown in the table refers to a standard temperature of 23°C.

***The setting time "ST" is the time necessary for the silicone to harden from the beginning of mixing of the two components. The reported ST shown in the table refers to a standard temperature of 23°C.

Cured Silicone properties are guaranteed within temperatures ranging from a minimum temperature of - 40 °C to a maximum temperature of +200°C.

6. Packaging

Item code (Internal Zhermack code)	Packaging
DT20018	ZA FAST-SIL 1+1 kg
DT20019	ZA FAST-SIL 25+25 kg

7. Shelf life and storage conditions

The “Best use before end” date of each batch is shown on the product label.

18 months if stored correctly at a temperature between 5° and 27°C (41° - 80°F).

8. Notes

The advice provided as oral or written recommendations or through product use demonstrations are based on the Company knowledge.

Close containers after use, do not turn caps or lids between base and catalyst upside down.

Use and application of the product by the user are not subjected to Company’s monitoring or restrictions, therefore the final responsibility falls on the user.

Storage beyond the date specified on the label does not necessary mean that the product is no longer usable. In this case, however, the properties required for the intended use must be checked out for quality assurance reasons. Please contact your Sales Area Manager for support.

9. References

n.a.