

ZA 26 WT 10 SPRAY THIXO: Technical Data Sheet

RTV 2 SILICONE RUBBER / INDUSTRIAL USE

1. Description and Main Features

- Thixo addition curing, two component silicone that vulcanize at room temperature.

1.1 Special feature

- Non –shrink cure at room temperature which can be accelerated by the application of heat
 - Low Shore A hardness (approx. 25)
 - High tear strength
 - Excellent long term stability of the mechanical characteristics of the hardened rubber
 - Outstanding resistance to gypsums, to common casting resins and coatings.
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2. Application

Vacuum Casting (can be applied with a spray machine or by brush. Suitable for production of reusable silicone vacuum bags

Mould making for vertical surfaces (can be applied with a spray machine or by brush. Ideal for vacuum bagging or for impression of vertical surface

2. 1 Processing

Important note: the platinum catalyst is in the component CATALYST.

Catalyst and Base components may only be used together if they have the same batch number.

3. INSTRUCTIONS FOR USE

If the silicone is used by brush for vertical surfaces take the two bi-component products supplied by Zhermack (base and catalyst), 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, the base and catalyst must be mixed together. While mixing, it is important to check that no residue remains on the sides of the recipient. Mix energetically until the blended color is homogeneous. Once the product is thoroughly mixed, it is ready to be used.

If the product is used by spray mixing machine, be sure to put the platinum part in the right container. When the machine is ready, please extrude a small part of silicone before to apply the nozzle, just to equilibrate the level of the silicone. Then the silicone is ready to be sprayed. After the to be sprayed the silicone can be spread with the brush to eliminate the bubble's air.

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

Please pay attention some Vaseline Oil could inhibit the product. Make a small test first.

The reported WT shown in the table refers to a standard temperature of 23°C. Complete the mould by adding the missing quantity of silicone within the geltime of the first layer of silicone. The second layer will attach to the first one without altering the final outcome. The setting time ST (see table below) is the time it takes 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. After the ST is complete, the silicone is hardened.

Effects of temperature on setting and working times: 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.

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

4. Chemical and Physical Properties

Typical General characteristics	Value	Inspection Method
PRODUCT DATA (UNCURED)		
COMPONENT Catalyst		
Color	White	
COMPONENT Base		
Color	Light blue	
PRODUCT DATA (CATALYZED Catalyst+Base)		
Color	Light blue	
Viscosity of pre-catalyzation mixture	-	BROOKFIELD
Mixing Ratio	1:1	
Working time / Pot life at 23 °C (73 °F)	9'	BROOKFIELD
Setting time at 23 °C (73 °F)	1 hour	
Shore A hardness after 24 hours	25 shA	ASTM D2240-05 – 23°C
Tensile Strength (Metric System)	4 N/mm ²	ASTM D412-06a – 23°C
Tensile Strength (USA System)	580 psi	ASTM D412-06a – 23°C
Elongation at break	400 %	ASTM D412-06a – 23°C
Tear strength Die B (Metric System)	20 N/mm	ASTM D624-00 – 23°C
Tear Die B (USA System)	113 ppi	ASTM D624-00 – 23°C

These figures are only intended as a guide and should not be used in preparing specifications. Vulcanizate after 24 H at 23°C.

5. Available Packages

<i>Zhermack code</i>	<i>Packages</i>
	3 kg + 3 kg
	25 kg + 25 kg
	200 kg + 200 kg

6. Safety Data Sheets

Before handling the product, read the safety data sheet and make sure to get all the information required for safe use.

7. Shelf Life

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

The ZA 26 WT 10 SPRAY THIXO is guarantee for a period of 18 months if stored correctly at a temperature of between 5° - 27°C (41° - 80°F).

Close the bottles after use, do not invert the caps or lids between the base and catalyst.

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.
