

WACKER SilGel® 610 A/B

Silicone Gels

WACKER SilGel® 610 A/B is a pourable, addition-curing RTV-2 silicone rubber.

Properties

- two-part, 1 : 1 mixing ratio - low viscosity - rapid cure - low hardness (silicone gel)

Technical data

Properties Uncured

Property	Condition	A	B	Method
Color	-	transparent	transparent	-
Density	23.0 °C	0.97 g/cm ³	0.97 g/cm ³	DIN EN ISO 2811-1
Viscosity, dynamic	25 °C	7500.0 mPa·s	7500.0 mPa·s	DIN EN ISO 3219
Platinum catalyst in component	-	-	B	-

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

Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity, dynamic	25 °C	7500.0 mPa·s	DIN EN ISO 3219
Mix ratio	-	1 : 1	A : B
Pot Life	23 °C	60 min	-

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

Properties Cured

Property	Condition	Value	Method
Color	-	transparent	-
Density	23.0 °C	0.97 g/cm ³	DIN EN ISO 1183-1 A
Penetration ⁽¹⁾	-	50 - 65 1/10mm	DIN ISO 2137

¹quarter cone, 9.38g, 5 sec.

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

Application details

encapsulation of electronic components

Processing

surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of WACKER SilGel[®] 610 A/B. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds. If a substrate's ability to inhibit cure is unknown, a small scale test should be run to determine compatibility.

mixing

Caution: Only components A and B with the same lot number may be processed together!

Component B of WACKER SilGel[®] 610 contains the platinum catalyst, component A the crosslinker. Even traces of the platinum catalyst may cause gelling of the component containing the crosslinker. Therefore tools (spatula, stirrers, etc.) used for handling the platinum-containing component or the catalyzed compound must not come into contact with this component. The two components should be thoroughly mixed at a 1 : 1 ratio by weight or volume. To eliminate any air introduced during dispensing or trapped under components or devices a vacuum de-airing under a vacuum encapsulation is recommended.

curing

The curing time is highly dependent on temperature, size and heat sink properties of the component being potted.

The reactivity can be adjusted within wide limits by adding Catalyst EP or Inhibitor PT 88 to suit the processing requirements of the particular application. Catalyst EP increases the reactivity, i. e., pot life and curing time are reduced. Inhibitor PT 88 is a pot life extender and prolongs pot life and curing time. Further information is given in our leaflet "Catalyst EP/Inhibitor PT88".

pigmentation

WACKER SilGel® 610 A/B can be pigmented by adding 1 - 4 % of an ELASTOSIL® FL pigment paste. We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber-Processing".

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

According to the latest findings WACKER SilGel® 610 A/B being an addition-curing silicone rubber contains neither toxic nor aggressive substances which might require special handling precautions. General industrial hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code WACKER SilGel® 610 A/B



For technical, quality or product safety questions, please contact:

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