

# ELASTOSIL<sup>®</sup> AUX G 800

## Primer for silicone rubber

ELASTOSIL<sup>®</sup> AUX G 800 is a solution of reactive siloxanes and silanes in an organic solvent. The primer composition can be applied to the substrate as such or diluted. During evaporation of the solvent and on exposure to atmospheric humidity at ambient temperature a rigid primer film is formed which firmly adheres to the substrate. Application of a silicone rubber onto the primed substrate and subsequent vulcanization will then result in a tight bond between the silicone rubber and the substrate.

## Properties

- suitable for various coating techniques like dipping, brushing or spraying

## Specific features

- Adhesion promoting primer

## Technical data

### General Characteristics

Property	Condition	Value	Method
Active substance content	-	approx. 20 wt. %	-
Color	-	clear, yellowish	-
Density	23 °C	0.75 g/cm <sup>3</sup>	DIN 51757
Flash point	-	3 °C	ISO 13736
Ignition temperature (liquids)	-	380 °C	EN 14522
Viscosity, kinematic	-	1.0 mm <sup>2</sup> /s	DIN 51562

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

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.

## Applications

- Cable Accessories
- Arresters
- Insulators

## Application details

Bonding agent preferably used with addition-curing silicone rubbers like WACKER® ELASTOSIL® HCR and WACKER® POWERSIL® HCR. ELASTOSIL® AUX G 800 is especially suited for bonding addition-curing POWERSIL® 3100 silicone rubber to metallic and non-metallic substrates.

## Processing

Surfaces to be primed have to be dry and free from grease, oil, wax, dust, rust or other contaminants. The surface should be cleaned, e.g. with a non-polar solvent such as mineral spirits (boiling range between 80 °C and 140 °C), followed by a polar solvent, such as acetone. Very smooth surfaces may be roughened by grinding. In case of metals the substrate should be given several hours time to regenerate its oxygen layer before applying the primer. Loose particles must be removed.

The primer can be applied by spraying, immersion or dipping, blade coating or brushing. The primer can be applied as such or diluted with mineral spirits or an alcohol such as ethanol or 2-propanol. In any case, the primer film should be applied as thin as possible and free of air bubbles. Usually the best results can be achieved with a primer layer between 1 and 10 µm thickness corresponding to a coating weight of 5 to 50 g/m<sup>2</sup> ELASTOSIL® AUX G 800. In most cases it is helpful to dilute the primer in organic solvents like white spirits or ISOPAR® E to a ratio of 1 : 1 – 1 : 10.

Evaporation of the solvent should be done at ambient temperature. The formation of a consistent primer film which firmly adheres to the substrate requires a certain atmospheric humidity. Higher or lower humidity will reduce or prolong the necessary reaction time. As a guiding value an evaporation or drying time of 1 – 2 h at ambient temperature and 40 % relative humidity should be applied, to allow for a formation of a consistent primer film. In some cases the adhesion can be improved by heating the primed substrate at 100 – 150 °C for up to one hour after evaporation of the solvent at room temperature. Tests should be performed if special conditions are needed.

The silicone rubber should be applied to the primed surface soon after the drying or heating process, if possible. It is recommended that this is done not later than approximately 5 hours after priming the substrate. Otherwise a drop in adhesive strength may occur. Prior to the application of the silicone rubber, the primed surface has to be kept free of contaminations.

### Important

Initial adhesion directly after vulcanization of the rubber will in many cases be high already. In some cases, however, initial adhesion will be sufficient for handling the composite while maximum adhesive strength will only be achieved after about 4 days. For HCR silicone rubber annealing after vulcanization is recommended according to the respective rubber technical data. ELASTOSIL® AUX PRIMERS are sensitive towards humidity. In contact with moisture the liquid primer becomes turbid and the adhesive strength of the primer is impaired. The ELASTOSIL® AUX PRIMERS should therefore be stored in a sealed container after usage.

For detailed information, refer to brochures on [www.wacker.com](http://www.wacker.com).

## 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

Due to its high content of organic solvent, ELASTOSIL® AUX G 800 is subject to the same safety regulations as these, i.e., it is a flammable liquid. Appropriate precautions are an absolute must.

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 ELASTOSIL® AUX G 800



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

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