ELASTOSIL® AUX G 3243

PRIMER FOR HTV SILICONE RUBBER

Product description

ELASTOSIL® AUX G 3243 serves as adhesion promoter between silicone elastomers and metallic or non-metallic substrates. This primer is a solution of reactive silanes and siloxanes in an organic solvent mixture.

Properties

The primer solution is ready-to-use for direct application onto the substrate but can also used, if necessary, in diluted form. During evaporation of the solvent and concurrent exposure to atmospheric moisture at room or elevated temperature a primer coating is formed firmly adhering to the substrate. Subsequent application and vulcanization of silicone rubber onto the primer-treated surface results in a tight bond between silicone rubber and the substrate.

Processing

Before the application of primer the substrate surfaces have to be dry as well as free of grease, oil, wax, dust, rust and other contaminants. The surface should be cleaned with a non-polar solvent, e.g. a mineral spirit with a boiling range between 80 °C and 140 °C, followed by a polar solvent, e.g. acetone. Very smooth surfaces may be roughened by grinding. Loose particles must be removed prior to treatment.

The primer is ready for direct application and can be applied by immersion or dipping, spraying, blade coating or brushing.

Evaporation of the solvent can be performed at room or elevated temperature. The formation of a consistent primer film firmly adhering to the substrate requires a moderate atmospheric humidity.

As a guideline, a venting time of up to 2 h at room temperature is usually sufficient. In some cases and especially if a strong shear force occurs during processing heating the coated substrate for less than 60 min at 130 °C might be helpful. Ideally within 5 h after priming the substrate but not later than 2 days the silicone rubber should be applied and vulcanized.

However, since the maximum adhesion is determined by the nature of the surface (material, roughness etc.), the silicone elastomer and the processing, adhesion trials are absolute necessary. Our technical service will kindly assist you.

It is important to note that in some cases the initial adhesion will be sufficient for handling while the maximum adhesive strength will only be achieved after a few days.
Please note that ELASTOSIL® AUX G 3243 is sensitive to humidity. In contact with moisture the liquid becomes turbid and the adhesive strength of the primers is impaired.

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.

Once opened, containers of ELASTOSIL® AUX G 3243 should be kept well sealed and stored in a cool and dry place.

Safety notes

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.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		colorless
Density at 20 °C	DIN 51757	0,85 g/cm³
Solvent		IsoparE / Xylol
Solvent content		60 %
Solids content		23 %

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

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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