

ELASTOSIL® A 8

Silicone Saturant

Characteristics

ELASTOSIL® A 8 is a one part UV curable silicone elastomer.

Special characteristics

- Rapid UV cure
- Solvent-free
- Shadow cure
- Low viscosity

Application

ELASTOSIL® A 8 is a protective coating designed to be used as a gasket saturant.

Processing

The performance of ELASTOSIL® A 8 is dependent upon many factors, including the application method, the thickness of the layer deposited, the substrate, the curing atmosphere, and the curing cycle.

Surface Preparation

The surface to be coated may need to be cleaned using a water detergent solution and acetone, xylene or other suitable solvent.

Application

ELASTOSIL® A 8 may be applied by dipping, spraying, or brushing. Equipment used to apply ELASTOSIL® A 8 may be cleaned with organic solvents such as mineral spirits. All traces of solvent should be removed from application equipment before its use with ELASTOSIL® A 8.

UV Curing

Once ELASTOSIL® A 8 is in placed on the substrate, the cure can be induced by exposure to any of a variety of industrial UV sources. The most effective are D and H bulbs. A 4 second exposure with a D bulb at an intensity of 1.0 W/cm² cures a 4 mil coating in less than one minute. A shorter exposure time can be achieved with higher intensities. The actual cure time for a given application should be determined on an individual basis.

Because ELASTOSIL® A 8 begins to cure on contact with atmospheric moisture, all containers should be tightly closed in light-proof containers when not in use. Dip tanks should be no more than half full and blanketed with a dry, inert gas such as nitrogen. If a

Product data

Properties—As supplied*	Characteristics	Test Method
Appearance	Translucent, colorless to amber liquid	WSTM-2119
Viscosity, cP, 25 °C	90	WSTM-2103
Solids, %	75	WSTM-2288
Specific Gravity, 25 °C	0.96	WSTM-3152
Flash Point, Pensky-Martens, °C	>71	WSTM-3081
Skin-Over Time, hrs, 25 °C 50% relative humidity	8	WSTM-2118
Cure Energy, D bulb, J/cm ² *	4	N/A
Cure Energy, H bulb, J/cm ² *	15	N/A
Electricals—As cured*	Characteristics	Test Method
Dielectric Strength, kV/mm	19.7	WSTM-1173
Dielectric Strength, V/mil	400	WSTM-1173
Dielectric Constant, 1 kHz	2.80	WSTM-1174
Volume Resistivity, ohm•cm	2 x 10 ¹⁴	WSTM-1175
Dissipation Factor, 1 kHz	2 x 10 ⁻⁴	WSTM-1174

* 4 mil coating

skin should form over the surface it may be removed by careful skimming. Spray equipment and brushes should be washed and wiped clean with naphtha or mineral spirits after use

The adhesion of ELASTOSIL® A 8 to most substrates can be enhanced by a 30 second to one minute preheat cycle at 60-70 °C before exposure to the UV source

Storage

ELASTOSIL® A 8 has a shelf life of at least 12 months when stored below 32 °C (90 °F) in the tightly closed original container.

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.

Ordering Information

ELASTOSIL® A 8 is available in 55-gallon (350 lb.) drums. Orders may be placed directly to:

Wacker Silicones Division
3301 Sutton Road
Adrian, Michigan 49221-9397
Phone: 1 800 248-0063

To speak with a technical representative or for information on other Wacker products call toll free 1 800 248-0063.

Safety information

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.

Because we cannot foresee the varied conditions under which this information and our materials may be used, we do not guarantee the applicability or accuracy of this information or the suitability of our materials in any specific situation. Samples are provided and users should make their own tests to determine the suitability of our materials for their specific purposes. These materials are provided without warranty, either expressed or implied, of fitness for a specific purpose and nothing herein shall be construed as a recommendation for uses, which infringe valid patents, or as extending a license under valid patents.

The management system has been certified according to ANSI/ISO/ASQ Q9001 and ANSI/ISO 14001

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

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