SLM 74300 (Primer AV)

Preliminary datasheet

Characteristics

2-component primer to promote the adhesion between wood or aluminum and catalyzed addition curing rubber.

Special characteristics

The mixture will form a rigid film of silicone resin is formed on exposure to atmospheric humidity at ambient or elevated temperature and firmly adheres to the substrate. The catalyzed silicone rubber applied on top will then form a tight bond to this resin film during vulcanization.

- low solvent content
- straightforward processing
- excellent adhesion
- no drying necessary

Application

Bonding agent preferably used with addition-curing RTV-2 silicone rubbers from, among others, the ELASTOSIL® M and ELASTOSIL® RT ranges to achieve adhesion to metallic and non-metallic substrates.

Even silicone rubber formulations modified with large amounts of silicone fluid, of the kind commonly used for making printing pads, will develop excellent adhesion to aluminum or plywood carrier plates when SLM 74300 (Primer AV) is used.

Processing

Mixing
To obtain a ready to use mixture, the components **A** and **B** have to be mixed in the ratio **2 : 1**.

Due to the low viscosity of the components this may be achieved by simply shaking the closed mixing vessel.

The final mixture has a pot life of about 2 hours. After that time we may not guarantee for a proper adhesion.

Therefore it is important only to mix that much amount which is possible to be processed in that time frame. With 1 g ready to use mix a surface area of about 100 cm^2 of plywood or 500 cm^2 of aluminum may be primed.

Caution!
The mixture of A and B may release small amounts of hydrogen gas. Therefore it is imperative never to close the mixing vessel tightly.

Preparing the substrate
Surfaces to be primed should be dry and free from grease, oil or other contaminants.
The surface should first be cleaned with a non-polar solvent such as mineral spirits (at a boiling range of 80 °C up to 140 °C), followed by a polar solvent, preferably acetone.
Loose particles must be removed, and very smooth surfaces should be roughened by grinding.

Product data (cured)

Property	Test method	Unit	Value	
Component			**A**	**B**
Mixing ratio			**2**	**1**
Pot life of mixture		[h]	2	
Appearance			clear, yellowish	clear, colorless
Density		[g/cm³]	0.99	0.96
Viscosity component A	ISO 3219	[mm^2/s]	4.9	
Viscosity component B	ISO 3219	[mPas]		100

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

Applying the primer
The primer is best applied with a brush, although dipping or spraying can also be used. On relatively smooth, non-absorbent surfaces such as aluminum, the primer should be applied as thinly as possible and free of air bubbles. On very rough or absorbent surfaces, such as plywood, the coating should be applied quite liberally.

Applying the rubber
As an advantage over ordinary primers, the catalyzed silicone rubber may be applied to the primer coat immediately after applying the primer. No drying or heating is necessary.

The catalyzed silicone rubber should be applied to the primer coat at the latest after 7 hours since otherwise a drop in adhesive strength may occur.

Usually after 6 hours sufficient adhesion will have developed to allow pad demolding without any problems.

Storage
Components A and B of SLM 74300 are best stored between 5 °C and 30 °C in the tightly closed original container. The 'Best use before end' date of each batch appears 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 information

Caution!
Component B of SLM 74300 may develop hydrogen gas or hydrogen containing oligomers in the presence of certain substances. Please adhere to the safety data-sheet.

The mixture of A and B might also release some hydrogen gas. Therefore don not close the mixing vessel tightly.

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

Additional information

Please contact your nearest Wacker subsidiary.

SLM 74300 is in the development stage. Due to the nature of the product, neither a binding agreement for continued future delivery nor a guarantee of product reproducibility can be given at present.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001
The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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

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