

SILICONES

and more

Wacker Silicone Primer AV

The mixture forms a rigid film of silicone resin when exposed to humidity at ambient or elevated temperature and adheres firmly to the substrate. The catalyzed silicone rubber applied to it then forms a tight bond with this resin film during vulcanization. This primer is suitable for all addition silicones (Silicone addition...) variants from our web shop.

Most silicones often do not chemically bond to a surface. Therefore, to promote adhesion, a primer must be used.

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

This primer works on:

Metals (such as aluminum, lead, iron, steel)

Wood

Some plastics (such as PETG, Nylon, acrylic, epoxy, PVC)

Other substrates

CAUTION: The primer has an ignition temperature of 3°C (from 3°C flammable gases are produced). You must therefore be very careful!

Processing

Mix

To obtain a ready-to-use mixture, mix components A and B in the ratio 2 : 1.

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

The final mixture has a pot life of about 2 hours. After that time, we cannot guarantee good adhesion. Therefore, it is important to mix only the amount that can be processed in that time frame. With 1 g of ready-to-use mixture, an area of approx.

100 cm² of plywood or 500 cm² of aluminum can be primed.

Caution!

The mixture of A and B may release small amounts of hydrogen gas. Therefore, never close the mixing container tightly.

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Preparation of the substrate

The surfaces to be primed must be dry and free of 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 to 140 °C), followed by a polar solvent, preferably acetone.

Loose particles should be removed and very smooth surfaces roughened by grinding.

Application of primer.

The primer is best applied with a brush, although dipping or spraying is also possible. On relatively smooth, non-absorbent surfaces such as aluminum, the primer should be applied as thinly as possible and without air bubbles. On very rough or absorbent surfaces, such as plywood, the coating should be applied quite generously.

Applying the rubber

An advantage over ordinary primers is that the catalyzed silicone rubber can be applied immediately after the primer has been applied. No drying or heating is required.

The catalyzed silicone rubber must be applied to the primer layer no later than after 7 hours, otherwise a decrease in adhesion may occur.

Usually after 6 hours sufficient adhesion has developed to allow the pads to be removed without problems.

Shelf life

Components A and B of SLM 74300 are best stored between 5 °C and 30 °C in the tightly closed original packaging. The "best before" date of each batch is shown on the product label.

Storage after the date indicated 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 should 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 observe the safety data sheet.

The mixture of A and B may also release hydrogen gas. Therefore, do not seal the mixing vessel properly.

Use safety gloves, -goggles, breathing masks and or work in a well ventilated area. Wash hands after use.

When processing larger volumes use a liquid tight overall.

