

KA&MELOCK KM 28

Speciality Bonding Agent for Silicone Rubber and Metals

DESCRIPTION

KA&MELOCK KM 28 is a one-coat Bonding Agent formulated for bonding of Silicone Rubber to a wide range of metals, plastics and textiles.

The combination of KA&MELOCK MP 05 + KA&MELOCK KM 28 is ideal for EPDM rubber.

An excellent bond is achieved, as well as excellent corrosion, oil and gasoline resistance.

PREPARATION STAGES OF METAL SURFACES BEFORE APPLICATION

The metal surface must be completely cleaned before applying the adhesive. A good preparation of the metal surface is required to obtain a good metal/rubber bond and to be resistant to water and corrosion. The oxide layers on the metal surface should be mechanically cleaned. The metal surface is basically prepared by two methods.

- Mechanical Cleaning:

Grit blasting is a recommended method of metal cleaning. Steel grit is used to blast clean steel, cast iron; for other nonferrous metals, the use of aluminum oxide is recommended. Layover time between blasting and adhesive application should be kept to a minimum in order to avoid oxidation.

- Chemical Cleaning:

The process of preparing the metal surface chemically requires a different application for each metal group. Phosphating is a widely used chemical process for steel.

APPLICATION

KA&MELOCK KM 28 can be applied by spraying, dipping or brush.

If dilution is needed, satisfactory results are usually obtained with dilutions of 1:1 using Ethanol. Dilutions of 10 parts Ethanol to 1 part adhesive are possible.

For the recommended coating thickness of approximately 5 - 8 µm.

Remove only as much KA&MELOCK KM 28 from the original drum as will be consumed during the next shift. Under no circumstances must unused material be returned to the original container. Generally, vulcanizing conditions (temperature, pressure, duration) recommended by the rubber supplier should be adhered to. Vulcanizing temperatures of 140 °C – 200 °C are preferable.

For post-curing of parts, temperatures up to 220 °C are acceptable, without any negative effect on bonding properties. The bond offers excellent temperature resistance.

Post-curing can be done at temperatures of to 220° C, but this should be reached gradually, not abruptly. For instance, 100° C – 120° C – 160° C – 180° C, each for 20 minutes; and then 8 to 10 hours at 220° C.

Avoid storing coated parts for more than 1 - 2 days. Complete any further work on these parts within such time.

For control to the film coating of KA&MELOCK KM 28, dyes can be added. Suitable dyes Savinyl Blue RS or Savinyl Orange RSL (Sandoz AG, Basel / Switzerland) are located. 1 kg of dye-containing adhesive used in concentrations of 1 g.

TECHNICAL DATA*

Colour	Transparent
Viscosity 4 mm DIN-Cup	7 – 11 s
Specific Gravity	0,80 - 0,85 g/cm ³
Solid Content	5 - 7 % by weight
Solvents	Ethanol

*Data is typical and not to be used for specification purposes.

CAUTIONARY INFORMATION

Before using this product, please refer to the Safety Data Sheet for safe use and handling instructions.

SHELF LIFE / STORAGE

Keep the container tightly closed and away from heat sources. Maximum temperature storage is 25°C. Shelf life is 9 months from date of manufacture when stored below 25 °C, unopened container. Remove only as much KA&MELOCK KM 28 from the original drum as will be consumed during the next shift.

Under no circumstances must unused material be returned to the original container. Generally, vulcanizing conditions (temperature, pressure, duration) recommended by the rubber supplier should be adhered to. Vulcanizing temperatures of 140 °C – 200 °C are preferable.

Avoid storing coated parts for more than one week. Complete any further work on these parts within such time.

ADDITIONAL INFORMATION

For more information on this and other products, please contact us: info@wbkim.com.tr

The above information and recommendations contained are based on our knowledge and experience. Beyond our control due to different materials and conditions of application for our products, processes and applications will be used when appropriate in order to make sure that we strongly advise that adequate testing is performed.