

Klüberflex Modul 2

Module for improvement of coating adhesion



Benefits for your application

- **Maximum flexibility to attain optimized product performance**
 - due to individual adjustment of coating adhesion to the elastomer substrate
 - **Simple mixing**
 - no extensive stirring equipment or lengthy mixing required
 - **High degree of product standardization in your production plant**
 - tried and tested base product – many possible variations thanks to the Klüberflex product concept
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Description

Klüberflex Module 2 serves for optimizing the adhesion of Klüberflex bonded coatings on critical elastomers.

Application

Bonded coatings of the Klüberflex series are used to reduce friction and wear in profiled seals and O-rings made e.g. of EPDM, ACM, NBR, FKM, VMQ.

Application notes

Klüberflex Module 2 is fluid, of moderate viscosity and hence blends easily with the Klüberflex base product. For small pilot quantities up to one liter, mixing can take place manually. We recommend mixing with the aid of a rod. For larger quantities, an electric stirrer should be used to ensure better homogenization. Mixing may take place at low speed, which helps to avoid foaming, but should go on for at least 5 min. The product should be filtered after mixing, e.g. using a nylon filter with a pore size of 125-150 µm.

The Klüberflex base product mixed with Module 2 can be used for at least six months provided it is properly stored in the closed container.

We recommend adding between 1 and 5 % of Module 2, depending on the substrate material.

NOTE: Klüberflex modules are products developed for use in combination with Klüberflex and some Klübertop bonded coatings.

They cannot be purchased without the base product and must not be used for any other use than that intended for these bonded coatings.

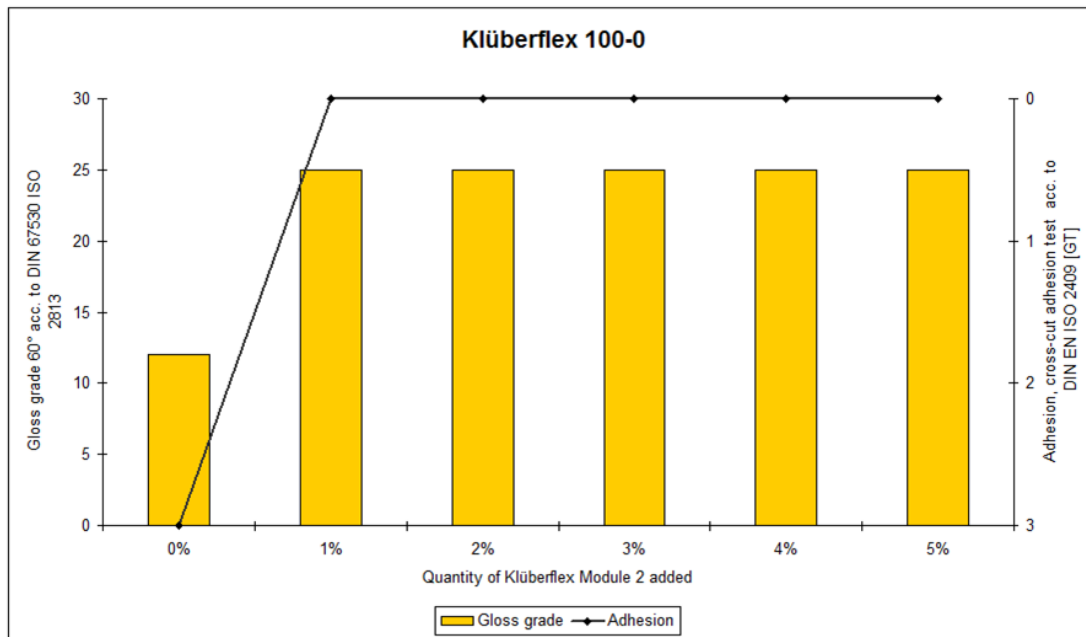
SPECIAL NOTES:

Klüberflex Module 2 will only become effective at drying temperatures > 100 °C for at least 1 min.

When Klüberflex Module 2 is added to the base product, the gloss grade on the hardened coating may increase.

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NOTE: The values shown were determined on an EPDM Shore 65 substrate and serve for orientation only. They are no absolute values.

If the addition of Klüberflex Modul 2 to the base product does not lead to the desired result, Module 2 may also be used as a primer either in undiluted form, or diluted with water.

If Klüberflex Modul 2 is used as a primer, we recommend heating the substrate component to at least 50 °C. Protect against frost and heat. If the product is frozen, let it thaw at room temperature and stir thoroughly.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberflex Modul 2
Bottle 1 l	+
Bottle 100 ml	+

Product data	Klüberflex Modul 2
Article number	099082
Colour space	brown
Density, DIN 51757, 20 °C	approx. 1.02 g/cm ³
pH-value, DIN ISO 976	approx. 8
Runout time, DIN EN ISO 2431, with flow cups, nozzle 4 mm	approx. 14 s
Friction coefficient (μ), DIN 53375, EPDM- plate, Shore 65, compact rubber, static	approx. 0.37
Friction coefficient (μ), DIN 53375, EPDM- plate, Shore 65, compact rubber,dynamic	approx. 0.26



Product data	Klüberflex Modul 2
Wear resistance to textile fabric, test path: 100 mm, testing speed: 100 mm/s, frequency: 60 strokes/min, layer thickness: approx. 10 µm, load 1 kg, material: compact rubber; cycles	>= 10 000 cycles
Flexibility of coating at ambient temperature, 150 % elongation	no crack formation
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 months



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Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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