MOLYKOTE® 106 Anti-Friction Coating

Heat-curing dry film lubricant

Features & benefits

- Low coefficient of friction
- High load-carrying capacity
- Good adhesion
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Solid lubricants
- Organic binder
- Solvent

Applications

Used as dry lubrication for metal/metal combinations. Provides maintenance-free, permanent lubrication of highly stressed friction combinations with low speeds or oscillating operation. Used where design construction prevents the use of oil or grease or where the risk of soiling is undesirable. Can be used for the dry lubrication of locks, hinges, joints, magnetic armatures and for the anti-seizure coating of engine and gear components

Description

MOLYKOTE® 106 Anti-Friction Coating is a heat-curing coating that offers long-lasting high-load-carrying capacity and low coefficient of friction.

How to use

Surface preparation

First, clean and degrease the surface that will be coated with MOLYKOTE® 106 Anti-Friction Coating. Phosphating or sandblasting (180 grid) increases the adhesion and service life.

How to apply

Stir MOLYKOTE® 106 Anti-Friction Coating thoroughly before applying by spraying, dipping, centrifuging or brushing. Recommended dry-film thickness: 5 to 20 µm.

Curing

60 minutes at 150°C (object temperature).
<Alternative condition>
30 minutes at 180°C (object temperature).

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard[1]	Test	Unit	Result
	Color		Dark gray
DIN EN ISO 2431	Viscosity at 20°C (ISO4 cup)	s	37
DIN 53217/2	Density at 20°C	g/ml	1.16
DIN ISO 2619	Flash point	°C	29.5
	Curing time at 150°C	minutes	60
	<Alternative condition> Curing time at 180°C	minutes	30
	Service temperature range	°C	-70 to 250
	Falex load-carrying capacity	N	p=14,500[2]
ASTM D2714	LFW-1, rotating F=2,860 N, n=72 rpm, v=7.9 m/minutes, no. of revolutions x 1,000 to µ=0.1		p=478[2]
ASTM D2714	LFW-1, oscillating F=900 N, frequency=89.5 osc./minutes, no. of oscillations x1000 to µ=0.08		p=292[2]

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.
[2]Surface: p = phosphatized.

Solubility

Thinning can be carried out using MOLYKOTE® L 13 Thinner.

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

When stored between 0 and 40°C in the original unopened containers, MOLYKOTE® 106 Anti-Friction Coating has a usable life of 36 months from the date of production.

Packaging

This product is available in different standard container sizes as shown on **molykote.com**. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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