

MOLYKOTE® 106 ANTI-FRICTION COATING

Heat-curing dry lubricant

FEATURES

- ◆ Low coefficient of friction
- ◆ High load carrying capacity
- ◆ Protection from corrosion
- ◆ Good adhesion
- ◆ Can be painted over

COMPOSITION

- ◆ Solid lubricants
- ◆ Organic binder
- ◆ Solvent

APPLICATIONS

- ◆ For smooth coating of metal/metal combinations.
- ◆ 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.
- ◆ This product is used successfully for the dry lubrication of locks, hinges, joints, magnetic armatures and for the anti-seizure coating of engine and gear components.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard*	Test	Units	Result
	Colour		Dark grey
	Physical properties		
DIN 53211/3	Viscosity at 20°C (DIN3 cup)	s	42
DIN 53217/2	Density at 20°C	g/ml	1.16
CTM 0242 I	Non-volatile content	%	41
	Storage life	months	12
	Temperature		
	Curing time	minutes/°C	60/150
	Curing time	minutes/°C	30/180
	Service temperature range	°C	-70 to +250
	Load-carrying capacity, wear protection, service life		
ASTM-D2625	Falex load-carrying capacity ¹	N	p=13600* s=11300*
ASTM-D2714	LFW-1, rotating ¹ F=2860 N, n=72 min ⁻¹ , v=7.9 m/minutes no. of revolutions x1000 to μ=0.1		p=187*
ASTM-D2714	LFW-1, oscillating ¹ F=900N, frequency=89.5osc./minutes no. of oscillations to μ=0.08		p=409*
	Corrosion protection		
ISO/R 1456	Salt spray test	h	2

1. * Surface:p = phosphatized, s = sand-blasted.

* CTM: Corporate Test Method, copies of CTMs are available on request.

ASTM: American Society for Testing and Materials.

DIN: Deutsche Industrie Norm

HOW TO USE

Surface preparation

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

How to apply

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

Curing

60 minutes at 150°C,
30 minutes at 180°C
(Object temperature).

Solubility

Thinning can be carried out using MOLYKOTE® L13 Thinner.

HANDLING PRECAUTIONS

Product Safety Data Sheets should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers MOLYKOTE 106 Anti-Friction Coating has a usable life of 12 months from the date of production.

Dow Corning will guarantee the

usable life of MOLYKOTE 106 Anti-Friction Coating until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

PACKAGING INFORMATION

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

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