

Specialty
Lubricants

MOLYKOTE® 106
Anti-friction Coating

FEATURES

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

COMPOSITION

- Solid lubricants
- Organic binder
- Solvent

Heat-curing dry lubricant

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

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

Standard*	Test	Unit	Result
	Color		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=2860N, n=72 minutes ^{a1} , v=7.9m/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® L 13 Thinner.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

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.

PACKAGING

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

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.