

Specialty
Lubricants

MOLYKOTE® 7400
Anti-friction Coating

FEATURES

- Free from flammable solvents
- Water-based, environmentally friendly
- High load-carrying capacity
- Low coefficient of friction

COMPOSITION

- Solid lubricants
- Inhibitor
- Organic binder
- Water
- Stabilisers

Air-curing dry lubricant

APPLICATIONS

- Sliding coating of metal/metal combinations with slow to moderately fast movements and high loads.
- Suitable for improving the running-in of gearboxes, sliding bearings and sliding guides.
- Maintenance-free, permanent lubrication of highly stressed friction combinations with low speeds or oscillating operation, in which the use of oil or grease, for design construction reasons is not possible, or because of the unacceptable risk of soiling.
- For running-in car transmission shafts, for the maintenance-free, permanent, non-soiling lubrication of threaded sleeves of car seat adjusting mechanisms, and for the cold working of steel.

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 53211/4	Viscosity at 20°C (DIN4 cup)	s	24
DIN 53217/2	Density at 20°C	g/ml	1.16
CTM 0242 I	Nonvolatile content	%	30
CTM 0007 A	pH at 20°C		8
	Storage life	months	12
	Temperature		
	Drying time at 20°C	minutes	15
	Curing time	min/°C	40/23
	Curing time	min/°C	10/50
	Curing time	min/°C	5/90
	Service temperature range	°C	-70 to +200
	Load-carrying capacity, wear protection, service life		
ASTM-D2625	Falex load-carrying capacity ¹	N	p=11300 s=7900
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=343
	LFW-1, oscillating F=900N, frequency=89.5osc./minutes no. of oscillations to μ=0.08		p=76

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
	Fretting corrosion - Deyber tester		10x10 ⁴

1. Surface pretreatment: p=phosphated, 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 7400 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

40 minutes at 23°C,
10 minutes at 50°C,
5 minutes at 90°C (Object temperature).

Solubility

Thinning can be carried out using distilled water or tap water.

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 between -10°C and 40°C in the original unopened containers, this product 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

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