

# Molykote<sup>®</sup> 7400 Anti-friction Coating

## FEATURES & BENEFITS

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

## COMPOSITION

- Solid lubricants
- Inhibitor
- Organic binder
- Water
- Stabilizers

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 office or your Global Dow Corning Connection before writing specifications on this product.

Test*	Property	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 <sup>1</sup>	N	p=11300 s=7900
ASTM-D2714	LFW-1, rotating <sup>1</sup> F=2860N, n=72 minutes, v=7.9m/minute no. of revolutions x1000 to μ=0.1		p=343
	LFW-1, oscillating <sup>1</sup> F=900N, frequency=89.5osc./minute no. of oscillations to μ=0.08		p=76
	Fretting corrosion – Deyber Test		10x10 <sup>6</sup>

\*DIN: Deutsche Industrie Norm.

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

ASTM: American Society for Testing and Materials.

<sup>1</sup>Surface pretreatment: p = phosphate, s = sand blasted

## HOW TO USE

### Surface preparation

First clean and degrease the surface which will be coated with *Molykote*<sup>®</sup> 7400 Anti-friction Coating. Phosphatization or sandblasting (180 grit) increases the adhesion and service life.

### How to apply

Stir the *Molykote* 7400 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 IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

### USABLE LIFE AND STORAGE

When stored between 1°C and 30°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

## 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

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [dowcorning.com](http://dowcorning.com) or consult your local Dow Corning representative.

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