

Product Information

Specialty Lubricants

DOW CORNING

MOLYKOTE® 7405 Anti-Friction Coating

FEATURES

- Good corrosion protection
- Resistant to adhesion and abrasion
- Low coefficient of friction
- Resistant to oil, grease and solvents
- Avoidance of stick-slip
- Electrically insulating

COMPOSITION

- Solid lubricants
- Organic binder
- Solvent

Heat-curing dry lubricant

APPLICATIONS

- For metal/metal and metal/plastic combinations with slow to moderately fast movements to high loads.
- Suitable for car door locks, small parts of cameras, cylinder head bolts and self-tapping screws.

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		Yellowish, transparent
	Physical properties		
DIN 53217/2	Density at 20°C	g/ml	1.04
	Storage life	years	
	Load-carrying capacity, wear protection, service life		
ASTM-D2625	Falex load-carrying capacity ¹	N	b=8000
ASTM-D2714	LFW-1, rotating ¹		p=63
	F=680 N, n=72 min ^{at} , v=7.9 m/minutes		
	no. of revolutions x1000 to $\mu=0.08$		
ASTM-D2714	LFW-1, oscillating ¹		p=4
	F=900N, frequency=89.5osc./minutes		
	no. of oscillations x1000 to $\mu=0.08$		
	Fretting corrosion - Deyber tester		36x10 ⁴
	Coefficient of friction		
	Screw test: Erichsen, thread	μ	0.13
	Screw test: Erichsen, head	μ	0.09

1. Surface pretreatment: b=blank, p=phosphated

* 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 7405 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, brushing or printing. Recommended dry film thickness: 5 to 20 μ m.

Curing

60 minutes at 120°C (object temperature).

Solubility

Thinning can be carried out using MOLYKOTE®7414 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 23°C in the original unopened containers MOLYKOTE 7405 Anti-friction Coating has a usable life of 60 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.