Product Information
Specialty
Lubricants

DOW CORNING

Molykote® D-96 UV Anti-Friction Coating

FEATURES & BENEFITS

- Excellent "anti-squeak" performance
- Low coefficient of friction
- Constant coefficient of friction at different temperatures
- Water-based
- Does not contain NMP and APEO
- Transparent coating
- Dry film detectable with UV-light

COMPOSITION

- Solid lubricants
- Organic binder
- Water
- Stabilizer
- UV tracer

Air-curing dry film lubricant with UV tracer

APPLICATIONS

- Helps to eliminate noise on interior automotive components such as door panels, decorative trims, arm rests, central consoles, dashboards, glove boxes, etc., as well as leather equipment.
- Suitable for material combinations car paint/plastic, plastic/plastic, plastic/metal, car paint/leather, plastic/leather, leather/leather with slow movements or vibrations at low loads.

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 (dry film)		Transparent
	Service temperature range	°C °F	-40 to 150 -40 to 302
Physical properties			
DIN EN ISO 2431	Viscosity at 23°C (73°F) Cup # 4	s	41
ASTM-D 1475	Density at 23°C (73°F)	g/ml	1.32
	Anti-Noise		
VDA 230-206	Anti-noise tester, speed 2 mm/s, temperature 23°C (73°F), rel. humidity 40%, load: 20 N, 10000 cycles		
	Material pairing	RPN[1]	noise
	Car paint vs PVC foil 1 mm thick	1	none
	PC-ABS vs PVC foil 1 mm thick	1	none

*DIN: Deutsche Industrie Norm
ISO: International Standardization Organization
ASTM: American Society for Testing and Materials
VDA: Verband der Automobilindustrie
[1]RPN: Risk priority number

HOW TO USE

Surface preparation

First clean and degrease the surface which will be coated with *Molykote*® D-96 UV Anti-Friction Coating.

How to apply

Stir *Molykote* D-96 UV Anti-Friction Coating thoroughly before applying by spraying, dip-spinning or brushing.

Recommended dry film thickness: 5 to 20 µm.

Curing

After 10 minutes at room temperature (23°C, 73°F) the wet film of *Molykote* D-96 UV Anti-Friction Coating is touch dry and the coated parts can be handled; the drying time can be reduced to 2 minutes with hot air at 60/80°C (140/176°F); after 120 minutes at 23°C (73°F) the dry film is fully cured and it can be fully loaded.

Thinner

Molykote D-96 UV Anti-Friction Coating is ready to use for spraying; thinning (viscosity adjustment) can be carried out by using distilled water or tap water. Water or a mixture of DPM (CAS # 34590-94-8) or TPM (CAS # 25498-49-1) in water (up to 20%) can be used for cleaning the application equipment components.

Coverage

When applied at 12 µm dry film thickness *Molykote* D-96 UV Anti-Friction Coating has a coverage of approx. 20 m^2/kg (this value does not take into account the losses generated during the application process).

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. 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 ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

TYPICAL PROPERTIES (Continued)

Test*	Property	Unit	Result
	Coefficient of friction		
	Anti-noise tester, speed 2 mm/s, temperature 23°C (73°F), rel. humidity 40%, load 20N		
	Material pairing:	µ-static	µ-dynamic
	Car paint vs PVC foil 1 mm thick	0.31	0.21
	PC-ABS vs PVC foil 1 mm thick	0.23	0.14
	Oscillating tester, speed 10 mm/s, load 2 N, temperature 23°C (73°F), rel. humidity 40%, material pairing:	µ-static	µ-dynamic
	POM ball vs PVC foil 1 mm thick	0.41	0.156
	POM ball vs TPO foil 1 mm thick	0.34	0.104

*µ = coefficient of friction

USABLE LIFE AND STORAGE

When stored at 23°C (73°F) 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 or consult your local Dow Corning representative.

LIMITED 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 our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the 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.

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