

## 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               | -40 to 150  |
|                            |                                                                                                       | °F               | -40 to 302  |
| <b>Physical properties</b> |                                                                                                       |                  |             |
| 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        |
| <b>Anti-Noise</b>          |                                                                                                       |                  |             |
| 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 <sup>1</sup> | 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

<sup>1</sup>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 m²/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**

## TYPICAL PROPERTIES (Continued)

| Test*                                                                                                      | Property | Unit     | Result    |
|------------------------------------------------------------------------------------------------------------|----------|----------|-----------|
| <b>Coefficient of friction</b>                                                                             |          |          |           |
| 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

**INFORMATION. THE SAFETY  
DATA SHEET IS AVAILABLE ON  
THE DOW CORNING WEBSITE  
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FROM YOUR DOW CORNING  
SALES APPLICATION  
ENGINEER, OR DISTRIBUTOR,  
OR BY CALLING  
DOW CORNING CUSTOMER  
SERVICE.**

### 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](http://dowcorning.com) or consult your local Dow Corning representative.

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