

Coatings

Molykote® Anti-Friction Coatings are paint-like products. They contain, instead of a coloring pigment, submicron sized particles of solid lubricants dispersed through carefully selected resin blends and solvents. Important for the lubricating and corrosion protection properties are the choice of the right raw materials and the volume concentration of the lubricant content. In addition to greases and oils, or where possible, as replacement of those hydrodynamic lubricants, Molykote Anti-Friction Coatings form a lubricating film, which helps cover surface roughness and thus protects against surface to surface friction (e.g. metal to metal, plastic to metal, plastic to plastic) even under extreme loads. They are applied by conventional painting techniques: e.g. spraying, dip spinning or brushing.

Anti-Friction Coatings

Molykote® 106

- || **Description** – Heat-curing dry lubricant.
- || **Applications** – For smooth coating of metal/metal combinations; Maintenance-free, permanent lubrication of highly stressed frictional combinations with low speeds or oscillating operation; Used where design construction prevents the use of oil or grease or where the risk of soiling is undesirable; This product is used successfully for the dry lubrication of locks, hinges, joints, magnetic armatures and for the anti-seizure coating of engine and gear components.
- || **Features** – Low coefficient of friction; High load-carrying capacity; Good adhesion; Can be painted over.
- || **Composition** – Solid lubricants; Organic binder; Solvents.
- || **Temperature Range** – From -70 to +250°C
- || **Packages** – Pail: 5kg

Molykote® D-321 R

- || **Description** – Air-curing dry lubricant.
- || **Applications** – For metal/metal combinations with slow to medium-fast movements and high loads; Suitable for the permanent lubrication of highly stressed sliding guides with low sliding speeds, oscillating movements or intermittent operation; Improving the running-in process and for lubrication under high vacuum and at extreme temperatures; Used successfully for cylinder head bolts, toaster guides, car mirror adjustment mechanisms, high voltage switches, for the running in of highly stressed gear wheel; Emergency lubricant for parts of the rotor head of wind energy installations and for groove-free cold extrusion of steel.
- || **Features** – Air-drying; Avoidance of stick-slip; High ageing resistance.
- || **Composition** – Solid lubricants; Inorganic binder; Solvents.
- || **Temperature Range** – From -180 to +450°C
- || **Packages** – Aerosol: 400ml; Can: 1kg; Pail: 5kg

Molykote® 3400A Leadfree

- || **Description** – Heat-curing dry lubricant.
- || **Applications** – Sliding contacts of metal/metal combinations with slow to moderate fast movements and high loads; Used successfully in automotive applications such as: pins, springs and bearings surfaces in brakes, body hinges and linkages; Moving parts in locks, switches, ventilation controls and servo mechanisms; Under the hood linkages exposed to dust, moisture, fuels, oils and other contaminants; Hinge pins, sleeve bearings and cams; Servo mechanism and instrument bearing; Threaded connections and fasteners.
- || **Features** – Excellent lubrication; Excellent corrosion protection; Good solvent resistance; High load-carrying capacity; Excellent adhesion to metal; Low coefficient of friction; High resistance to oil and fuels.
- || **Composition** – Solid lubricants; Organic binder; Solvents.
- || **Temperature Range** – From -200 to +430°C
- || **Packages** – Pails: 5kg, 20kg

Molykote® 3402C

- || **Description** – Air-curing dry lubricant.
- || **Applications** – Excellent combination of corrosion protection and lubrication; Used on main axle threads of drill hammers, spindles.
- || **Features** – Good corrosion protection; Excellent lubricity; Air-curing; High load-carrying capacity and wear resistance.
- || **Composition** – Solid lubricants; Corrosion inhibitor; Organic binder; Solvents.
- || **Temperature Range** – From -200 to +310°C
- || **Packages** – Can: 500g; Pail: 5kg

Molykote® 7400

- || **Description** – Air-curing dry lubricant.
- || **Applications** – Sliding contacts of metal/metal combinations with slow to moderate fast movements and high loads, Suitable for improving the running-in of gearboxes, sliding bearings and sliding guides; 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.
- || **Features** – Free from flammable solvents; Water-based; Environmentally friendly; High load-carrying capacity; Low coefficient of friction.
- || **Composition** – Solid lubricants; Inhibitor; Organic binder; Water; Stabilizers.
- || **Temperature Range** – From -70 to +200°C
- || **Packages** – Pail: 5kg; Drum: 180kg

Molykote® 7405

- ‖ **Description** – Heat-curing dry lubricant.
- ‖ **Applications** – For metal/metal and metal/plastic combinations with slow to moderate fast movements and low to medium loads; Suitable for car door locks, small parts of cameras, cylinder head bolts and self-tapping screws.
- ‖ **Features** – Avoidance of stick-slip; Resistant to oil, grease and solvents; Good corrosion protection; Electrically insulating; Low coefficient of friction.
- ‖ **Composition** – Solid lubricants; Organic binder; Solvents.
- ‖ **Temperature Range** – From -70 to +200°C
- ‖ **Packages** – Pail: 5kg

Molykote® 7409

- ‖ **Description** – Heat-curing dry lubricant.
- ‖ **Applications** – Sliding contacts of metal/metal combinations with slow to moderate fast movements and moderate to high loads; Suitable for oscillating movements or intermittent operations. For improving the running-in process, for permanent lubrication at high temperatures and also where oils and greases cannot be used; Used successfully for piston rings and tappets of combustion engines, magnetic armatures of vehicle starter motors, parts of vehicle brakes, locks, hinges and pumps, Corrosion protector for hydraulic and pneumatic parts.
- ‖ **Features** – Outstanding lubrication, coupled with good corrosion protection properties; Resistant to oil, grease, solvents and many other chemicals; Avoidance of fretting corrosion.
- ‖ **Composition** – Solid lubricants; Organic binder; Solvents.
- ‖ **Temperature Range** – From -70 to +380°C
- ‖ **Packages** – Can: 500g; Pails: 5kg, 25kg

Molykote® D 10

- ‖ **Description** – Heat-curing dry lubricant.
- ‖ **Applications** – Sliding contacts of metal/metal combinations with slow to moderate fast movements and moderate to high loads; Suitable for long-term lubrication of sliding contacts also in direct contact with oils and greases; Ideal as a long-term lubricating film on pistons used in gasoline and diesel engines, compressors and piston pumps, pneumatic and hydraulic systems, and other applications that require help to reduce piston and cylinder wall wear during break-in, cold-start, and ongoing operation situations.
- ‖ **Features** – Excellent resistance to oils, greases and solvents; Excellent wear resistance; Supplied as a thick liquid suitable for screen-printing application process.
- ‖ **Composition** – Solid lubricants; Organic binder; Solvents.
- ‖ **Temperature Range** – From -70 to +380°C
- ‖ **Packages** – Pails: 5kg, 50kg

Molykote® D-3484

- || **Description** – Heat-curing dry lubricant.
- || **Applications** – Sliding contacts of metal/metal combinations with slow to moderate fast movements and moderate to high loads; Used successfully for carburetor springs, lorry-coupling sleeves, toothed gears and parts of car safety belts and car-boot lock parts; Bolts and levers in tractors and construction machines.
- || **Features** – Excellent lubricating properties; Fast curing, hence particularly suitable for series production operations; High load-carrying capacity; High abrasion resistance, hence long service life.
- || **Composition** – Solid lubricants; Organic binders; Solvents.
- || **Temperature Range** – From -70 to +250°C
- || **Packages** – Can: 500g; Pails: 5kg, 50kg

Molykote® D-708

- || **Description** – Heat-curing dry lubricant.
- || **Applications** – For plastic/metal and metal/metal combinations for low to medium loads; Used on parts for door and locking mechanisms, safety belts, springs, hinges, pins, and washers; Suitable for office machines and precision mechanics; Recommended for dry lubrication of fasteners.
- || **Features** – Outstanding corrosion protection; Good aesthetics; Constant and defined coefficient of friction for threaded connections.
- || **Composition** – Solid lubricants; Organic binder; Solvents.
- || **Temperature Range** – From -180 to +240°C
- || **Packages** – Pail: 18l

Molykote® D-96

- || **Description** – Air-curing dry lubricant.
- || **Applications** – Reduces or eliminates noise of plastic parts e.g. in automotive applications such as door panels, arm rests, dashboards, glove boxes, etc., as well as leather equipment.
- || **Features** – Excellent “anti-squeak” performance; Low coefficient of friction; Constant coefficient of friction at different temperatures; Water-based; Transparent coating.
- || **Composition** – Solid lubricants; Organic binder; Water; Stabilizer.
- || **Temperature Range** – From -40 to +80°C
- || **Packages** – Pails: 5kg, 25kg

Molykote® PTFE-N UV

- || **Description** – Air-curing dry lubricant.
- || **Applications** – Suitable for rubber guides, sliding doors, furniture hinges, small mechanisms in office machines and sunroof seals; For nearly all material combinations such as metal/metal, plastic/metal, plastic/plastic combinations involving slow to medium movements and low loads; The UV indicator enables the end user to readily inspect and confirm, using UV inspection lamps, that the product has been applied to the substrate.
- || **Features** – Very low coefficient of friction; Colorless; therefore non-staining; Detectable on the surface.
- || **Composition** – PTFE; Binder; Solvents; Ultra-Violet indicator.
- || **Temperature Range** – From -180 to +240°C
- || **Packages** – Aerosol: 400ml; Pail: 5kg

Other Coatings

Molykote® L-0500

- || **Description** – Dry film corrosion protection coating.
- || **Applications** – Protection of blank metal surfaces, drilling and welding points; Repair of damaged galvanic surfaces; Corrosion protective primer for all types of paints.
- || **Features** – Good corrosion protection; Good water resistance; Good adhesion strength.
- || **Composition** – Aluminium flakes; Zinc flakes; Binders; Solvents.
- || **Temperature Range** – From -30 to +240°C
- || **Packages** – Aerosol: 400ml

Molykote® Metalform

- | **Description** – Transparent wax solution for forming operations of metals.
- | **Applications** – Suitable for cold forming of austenitic and ferritic steels, aluminum and its alloys, copper and brass, also as a non-contaminating lubricant in the paper industries and wherever clean lubrication is required; Used successfully for deep-drawing, embossing, stamping, bending, cold extrusion and cold forging of aluminum, for the calibration of metal parts, also for lubricating self-tapping screws, cutting blades, rails, furniture hinges and joints.
- | **Features** – Extending tool life; Effective even in very small quantities (thin film lubrication); Particularly effective on high-grade steel and aluminum; Pre-treated components can be handled and dispatched without risk of contamination.
- | **Composition** – Synthetic wax; Corrosion inhibitor; Solvents.
- | **Temperature Range** – From -60 to +120°C
- | **Packages** – Pail: 4,5kg

Molykote® Metal Protector Plus

- | **Description** – Corrosion protection coating.
- | **Applications** – Corrosion protection for metal parts which have to be stored or transported.
- | **Features** – Long-term corrosion protection; Transparent coating; Low coefficient of friction.
- | **Composition** – Synthetic wax; Corrosion inhibitor; Solvents.
- | **Packages** – Aerosol: 400ml; Pail: 8kg

Molykote® S-1010

- | **Description** – Anti-spatter spray. Water-based translucent coating which avoids sticking of spots on welding tools and parts.
- | **Applications** – Water-based anti-spatter spray version for welding applications.
- | **Features** – Water-based; Allows posterior painting of the welded parts; Easy removing by water cleaning.
- | **Temperature Range** – From 0 to +100°C
- | **Packages** – Aerosol: 400ml