

Multi-Purpose Water-Based General Rubber Molding Mold Release Agent Concentrate Universal Formula

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: Lubekote
- Certification: ISO 9001:2015, RoHS
- Model Number: LK-9100-MP
- Minimum Order Quantity: 20 Liters
- Price: USD 7-12 / Liter
- Packaging Details: 20L HDPE drum, 200L steel drum, 1000L IBC tote, export palletized packaging
- Delivery Time: 5-7 working days for stock, 15-20 days for production
- Payment Terms: T/T, L/C, PayPal, Western Union
- Supply Ability: 80000 Liters per Month



Product Specification

- Product Type: Multi-Purpose Water-Based Mold Release Agent Concentrate
- Target Rubber: NR, SBR, NBR, EPDM, CR, IIR
- Application: General Rubber Molding (Compression, Transfer, Injection)
- Dilution Ratio: 1:10 To 1:25 (Adjustable)
- Release Cycles: 4-7 Cycles (Compound Dependent)
- Appearance: Milky White Emulsion
- PH Value: 6.5-7.5
- VOC Content: <45 G/L
- Shelf Life: 12 Months
- Highlight: **water-based rubber mold release agent, universal rubber molding release concentrate, multi-purpose mold release agent concentrate**

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Multi-Purpose Water-Based Mold Release Agent Concentrate for General Rubber Molding

Product Introduction

Lubekote LK-9100-MP is a versatile multi-purpose water-based mold release agent concentrate designed for general rubber molding operations across diverse compound types and molding processes. Many rubber manufacturers produce a wide range of products using different rubber compounds (NR, SBR, NBR, EPDM, CR, IIR) and molding methods (compression, transfer, injection), making it impractical and costly to maintain separate release agents for each compound-process combination. LK-9100-MP solves this challenge with a universal formulation that delivers effective release performance across the six most common rubber families. The adjustable dilution ratio (1:10 to 1:25) allows each production line to optimize concentration for their specific compound tackiness, mold complexity, and release requirements, making it the ideal single-product solution for general-purpose rubber molding facilities.

Key Features & Benefits

Universal Six-Compound Compatibility: Validated effectiveness with NR, SBR, NBR, EPDM, CR, and IIR (Butyl) rubber compounds, covering 90%+ of general rubber molding applications with a single release agent.

Adjustable 1:10 to 1:25 Dilution Ratio: Flexible concentration adjustment allows each production line to fine-tune release performance—use 1:10 for challenging compounds and complex molds, 1:25 for easier applications to maximize cost efficiency.

Triple Process Versatility: Performs effectively in compression molding, transfer molding, and injection molding processes, providing consistent release regardless of molding method employed.

Simplified Chemical Inventory: One product replaces multiple compound-specific release agents, reducing inventory complexity, storage requirements, and risk of operator application errors.

4-7 Cycle Semi-Permanent Performance: Provides multiple release cycles per application, reducing spray frequency and improving production throughput across all compound types.

Water-Based Safety and Compliance: VOC content below 45 g/L with no hazardous solvents, meeting workplace safety and environmental compliance requirements for general manufacturing facilities.

Why Choose Us

Our 12-year focus on rubber processing auxiliaries has given us unique insight into the needs of general-purpose rubber molding operations. With 10 patents and an ISO 9001:2015 certified production facility, we deliver consistent quality that general molders can depend on. Unlike specialty chemical companies that offer only compound-specific solutions, we understand that many manufacturers need versatile, economical products that work across their entire product range. LK-9100-MP has been validated in production environments processing 6+ different rubber compounds across compression, transfer, and injection molding lines. Our technical support team provides practical guidance on compound-specific dilution optimization, application method selection, and troubleshooting. We offer flexible packaging from 20L drums to 1000L IBC totes to match consumption patterns, with bulk pricing for high-volume users. Free 5-liter evaluation samples with dilution ratio optimization support are available for production trial validation.

Technical Parameters

Parameter	Specification
Product Type	Multi-Purpose Water-Based Mold Release Agent Concentrate
Target Rubber	NR, SBR, NBR, EPDM, CR, IIR (Butyl)
Recommended Dilution	1:10 (High Tack) to 1:25 (Low Tack)
Release Cycles per Application	4-7 Cycles (Compound Dependent)
Molding Processes	Compression, Transfer, Injection
Appearance	Milky White Emulsion
pH Value	6.5-7.5
VOC Content	<45 g/L
Shelf Life	12 Months (Unopened, 5-35°C)

Application Instructions

Mold Preparation: Clean mold with standard alkaline mold cleaner. Remove all rubber residues and previous release agents. Dry mold completely and preheat to operating temperature (140-180°C typical).

Dilution: Start with 1:15 ratio for initial evaluation. Mix concentrate with deionized or distilled water using mechanical agitation for 2-3 minutes. Adjust ratio up or down based on release performance observed in production trials.

Application: Spray onto hot mold using air spray gun at 2-3 bar. Apply 2-3 light, even coats with 25-35 second intervals for water evaporation. Ensure complete coverage of all mold surfaces and cavity details.

Optimization: Monitor release quality across different compounds. Maintain a log of optimal dilution ratios per compound family for reference. Increase concentration (1:10 to 1:12) for high-tack compounds like NR and CR; use lower concentration (1:20 to 1:25) for easier-release compounds like EPDM.

Frequently Asked Questions (FAQ)

Q: Can LK-9100-MP replace 3-4 different release agents in my factory?

A: In most general rubber molding operations, yes. LK-9100-MP has been validated to effectively replace separate release agents for NR, SBR, NBR, EPDM, and CR compounds in a single facility. For specialized applications (silicone, FKM, medical grade), we recommend our dedicated formulations.

Q: How do I determine the optimal dilution for each compound?

A: Start at 1:15 for all compounds. If you experience sticking, increase to 1:10. If release is satisfactory and you want to optimize cost, try 1:20 or 1:25. The optimal dilution provides reliable release at the lowest cost—typically 5-15% below the concentration where sticking begins.

Q: Is it suitable for high-temperature molding above 200°C?

A: LK-9100-MP is designed for general molding temperatures of 140-180°C. For sustained operation above 200°C, we recommend our FKM-specific LK-9540-FKM or AEM-specific LK-9560-AEM for optimal thermal stability.

Q: What are the typical annual savings from switching to a multi-purpose release agent?

A: Customers typically report 15-25% reduction in chemical costs through simplified bulk purchasing, 20-30% reduction in inventory carrying costs by eliminating multiple SKUs, and 10-15% productivity improvement from reduced operator confusion and standardized application procedures.

Q: Can I get a trial sample before committing to a bulk order?

A: Yes, we offer 5-liter evaluation samples with complimentary technical support including dilution optimization and application guidance. Contact our sales team to arrange a production trial.



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