

## MetalJacket® Coating System

### For Substrate Protection of Ferrous Parts

LORD MetalJacket® coatings are environmentally-friendly, autodepositing, water-based dip coatings that provide excellent corrosion protection and can be applied over steel substrates for the following applications:

- a primer for adhesive systems;
- a primer for organic coating systems; or,
- as a complete coating system in a wide variety of applications.

MetalJacket coatings have North American automotive OEM approvals and can be applied over both bare steel and zinc phosphate substrates. Originally developed as a primer for LORD adhesive systems, MetalJacket technology has been refined to offer significant process, performance and environmental advantages when compared to traditional adhesives and coating systems. The final finish exhibits a uniform film thickness, without needing either high voltage electric assistance or rinses, regardless of part configuration. Using an automated application process, the MetalJacket process delivers high performance at a reduced cost.

### Features & Benefits

**Cost Effective** – eliminates steps, requires less floor space and decreases cycle times compared to similar systems. Fewer ancillary systems are required to maintain and operate the process, delivering both lower start-up and on-going production costs.

**Substrate Protection** – provides excellent corrosion, chemical, heat and mar-scratch resistance properties that help improve product performance and durability.

**Manufacturing Flexibility** – applies via monorail, indexing, hoist, walking beam and robotic systems. A LORD engineering team is available to assist you in designing a system to meet your specific performance, productivity and floor space requirements.



*MetalJacket Coating Line*

**Environmentally-Friendly** – contains minimal amounts of solvent and no toxic metals and operates in a closed-loop application process. MetalJacket coatings do not require rinsing or bath overflows. This reduces the impact on the environment and simplifies regulatory and compliance issues, which, in turn, reduces paperwork and cost.

**Automated Process** – utilizes a highly-productive, automated process that requires less labor to produce quality parts, keeping labor and operational costs to a minimum.

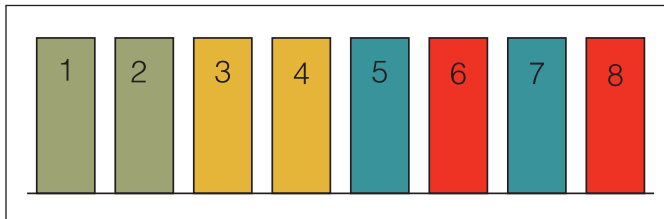
# LORD PRODUCT INFORMATION

## MetalJacket Coatings

Applied via an automated, autodepositing process MetalJacket primers and topcoats are a unique, patented chemistry consisting primarily of water, inorganic acids and LORD-formulated polymers.

Product	Function	Process	Performance
MJ1100	Metal Treatment	Applied over clean only steel	N/A
MJ1500	Metal Treatment	Applied over Zinc Phosphate	N/A
MJ2110	Primer/Topcoat	Applied over MJ1100	<ul style="list-style-type: none"><li>• 500 hours salt spray</li><li>• North American automotive approvals</li></ul>
MJ5000	Primer/Topcoat	Applied over MJ1100 or MJ1500	<ul style="list-style-type: none"><li>• 500 hours salt spray with MJ1100</li><li>• 1,000 hours salt spray with MJ1500</li></ul>

## Autodeposition Process



- 1. Alkaline Clean**
- 2. Rinse**
- 3. Acid Clean**
- 4. Rinse**
- 5. MetalJacket Treatment (MJ1100 or MJ1500)**  
15-30 seconds dwell
- 6. Dehydration**  
10 minutes at 93°C (200°F)
- 7. MetalJacket Primer/Topcoat (MJ2110 or MJ5000)**  
15-90 seconds dwell
- 8. Dehydration /Bake**  
A. 10 minutes at 93°C (200°F)  
B. 20 minutes at 177°C (350°F)

Performance testing completed on cold rolled steel lab panels.

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LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

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For a listing of our worldwide locations, visit [LORD.com/locations](http://LORD.com/locations).

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## Applications

MetalJacket coatings are formulated to meet a wide range of performance needs in both automotive and industrial markets. Current and potential applications include:

### Automotive

- Rubber-to-metal bonding applications
- Functional applications, including:
  - Under-hood components
  - Suspension systems
  - Engine cradles
  - Car & truck frames

### Industrial

- Building products & supplies
- Industrial bonding applications
- Lawn & garden accessories
- Wire fabrication & products
- Motor & fan housings
- Outdoor furniture & accessories
- General finishing applications

**LORD**  
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