

#### **Product Bulletin**

Product Name: Micron RB – 050 Product Code: 2202916 Revision Date: July 22, 2024

# Micron RB - 050

#### Zinc Phosphate Bonding Process

RB-050 is a Calcium Modified micro crystalline zinc phosphate compound used for rust protection, bonding rubber, plastisol and paint coatings to steel in immersion tanks. A tightly bonded micro-crystalline coating is achieved. Micron crystal size is typically 2-5 microns. Ease of use and bath controls are superior properties.

RB-050 is a spray or immersion type product which provides coatings of 150 up to 500 mg/ft<sup>2</sup>. Coatings are applied over steel and subsequently coated with paints, lubricants, oil, rubber, elastic or rubber sealant or adhesives.

RB-050 provides a dense coating which resists corrosion and is the highly suitable for bonding rubber (which can be very challenging at times) and all other top coatings. Premium quality performance and results are achieved with this system. Meets the U.S. military specification of TTC490 Type I.

#### **Features & Benefits**

- High resistance to sludging, Providing low sludge and dusting.
- Internally accelerated for ease of control.
- Activated for use on resistant alloys
- Micro smooth coatings, providing a functional advantage.
- Meets various automotive, government and military specifications.
- Coating weights are easily controlled by simple acid ratio adjustments if needed.
- Can also be used for lubrication applications.
- The coatings prevent galling of metal and assists in deep drawing and extruding of metals.

### **Physical Data**

pH	1
Product Type	Liquid
Spec. Gravity	1.43
lbs./gal.	11.93
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 years
Freeze Information	Not damaged by freezing.







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## **Typical Processing**

- 1. Pre-clean, Alkaline #LS-150 8% B.V, 8 min., 170 deg. F, or dyna soak 100 L.
- 2. Rinse (Or alkaline descaler #345 L 399- L).
- 3. Rinse.
- 4. Preferred 2<sup>nd</sup> Rinse
- 5. R B-050 Zinc, 165-175 deg. F., 8 Min, 25-35 points acid (re:4%) Ratio 6.5-10 (immersion), 10-15 (Spray systems).
- 6. Rinse.
- 7. Dry to touch "pre-paint option" #2018, 3-5%, 125 deg F. 30-60 sec.
- 8. Lubrication option: Loc-Lube #5, 8 oz./gal., 175 deg. F, 4-10 min.

### **Packaging**

Container Type	Poly
Net Units	655
Tare Wt.	25 lb.
Gross Wt.	680
DOT_Name	UN 3264, Corrosive Liquid, Acidic, inorganic, N.O.S., (Phosphoric & Nitric Acids), 8, PG II.
DOT Hazard	Corrosive
Tarriff ID	2835.29

### **Use Parameters**

Concentration Range	4 – 6% by volume.
Temperature Range	170 – 190 deg. F.
Time Range	4 – 20 minutes.
Agitation	Recommended.

# **Waste Disposal**

Neutralize pH, remove fats, oils, grease, sludge, mud, metal solids.

# **Holding Tank Materials of Construction**

Acid resistant, stainless, or poly.





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#### Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

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