U.S. RESIN SUPPLY & MANUFACTURING

USRESINSUPPLY.COM

Operations Maintenance Manual (O&M)

Prepared For: Commercial & Industrial Facility Owners, Engineers, Project Managers, and Maintenance Teams

Prepared By:

U.S. Resin Supply & Manufacturer Technical Services

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1. PRODUCT OVERVIEW

U.S. Resin Supply & Manufacturing develops high-performance **100% solids epoxy** and **polyaspartic coating systems** engineered for demanding commercial and industrial environments. These systems offer:

- Seamless, high-build protection
- Chemical and stain resistance
- Abrasion and wear resistance
- Non-porous, sanitary, easy-to-clean surfaces
- UV-stable polyaspartic finishes
- Fast return-to-service options

This manual provides **care, maintenance, usage limitations, and warranty compliance requirements** to ensure long-term performance.

2. GENERAL REQUIREMENTS

2.1 Cure Time Before Use

- **Light foot traffic:**
  - Epoxy: 12–24 hours
  - Polyaspartic: 4–6 hours

- **Light wheeled traffic:**
  - Epoxy: 48–72 hours
  - Polyaspartic: 12–24 hours

- **Full mechanical/chemical service:**
  - Epoxy: 5–7 days
  - Polyaspartic: 24–48 hours

Do not wash, wet-mop, or cover flooring until fully cured.

3. ROUTINE MAINTENANCE

3.1 Daily

- Dust mop or auto-scrub with microfiber pads
- Remove grit, sand, and debris immediately

3.2 Weekly

- Auto-scrub using a **pH-neutral detergent (pH 6–9)**
- Use only white pads or soft brushes

3.3 Approved Cleaners

- Neutral detergents
- Warm water
- Diluted non-abrasive degreasers
- Enzymatic cleaners

3.4 Prohibited Cleaners

- Acidic cleaners
- High-alkaline degreasers
- Citrus cleaners
- Chlorinated cleaners
- Abrasive powders
- Steam cleaning >150°F
- Black, brown, or green pads

4. SPILL MANAGEMENT

4.1 General

Clean spills immediately to avoid potential staining or gloss loss.
Rinse thoroughly after cleaning.

4.2 Chemical Exposure

Clean immediately if exposed to:

- Acids (acetic, lactic, etc.)
- Brake and hydraulic fluids
- Solvents (MEK, xylene, toluene)
- Salts and chlorides

Polyaspartics resist solvents better than epoxies, **but long-term contact is not acceptable**.

5. INDUSTRIAL MAINTENANCE PRACTICES

5.1 Heavy Equipment

- Use non-marring or soft urethane wheels
- No spinning or pivoting forklift tires in place
- No dragging pallets or crates directly on the coating

5.2 Impact Zones

Use:

- Rubber mats
- Poly sheets
- Steel plates

in areas where impacts or dropped tools may occur.

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6. LONG-TERM MAINTENANCE

6.1 Gloss Loss & Micro-Scratching

Expected in high-traffic industrial environments.
Solutions:

- Soft-pad auto-scrubbing
- Optional sacrificial maintenance coats
- Recoat every 3–7 years based on traffic load

6.2 Recoat Procedure

1. Thorough cleaning
2. Mechanical abrasion (60–100 grit)
3. Dust removal
4. Reapply epoxy/polyaspartic topcoat

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7. SYSTEM LIMITATIONS (FULLY UPDATED WITH TIRE MARK PROTECTION)

The following limitations apply to all U.S. Resin Supply & Manufacturing systems and must be communicated to the building owner.

7.1 Temperature Limitations

- Not designed for continuous exposure to **140–160°F**
- Hot objects (>250°F) may scorch or discolor

Thermal shock may cause micro-cracks

7.2 UV Exposure

- Epoxy will amber under UV
- Polyaspartics are UV stable but may still show mild color shift over time

7.3 Chemical Limitations

Not intended for long-term exposure or immersion in:

- Strong acids
- Strong bases
- Ketones
- Harsh solvents
- Oxidizers

7.4 Mechanical Limitations

Not resistant to:

- Gouging
- Dropped steel tools
- Chains or sharp edges
- Dragged equipment
- Steel wheels or aggressive industrial casters
- Abrasive debris (metal, sand, etc.)

7.5 Moisture Limitations

- Not a moisture vapor barrier
- Hydrostatic moisture can cause delamination
- Substrates must pass moisture testing

7.6 Food & Sanitation Facilities

- No steam cleaning above 150°F
- Some sanitizers may dull gloss
- Protect equipment legs to avoid point-load damage

7.7 Tire Marks, Rubber Transfer & Polymer Staining (Critical Warranty Exclusion)

Polyaspartic coatings **cannot prevent tire marks, black streaks, rubber transfer, or plasticizer migration** caused by industrial traffic. These marks are cosmetic and **do not indicate product failure.**

Causes include:

- Rubber plasticizers migrating into the coating
- Hot tire pickup from friction or heavy turning
- Forklifts and pallet jacks pivoting in place
- High-friction urethane or rubber wheels
- Heavy loads increasing surface friction
- Chemical interaction between tires and coating

These marks are:

✓ Normal in industrial facilities
✓ Cosmetic only
✓ Not covered by warranty
✓ Not related to coating adhesion or performance

Prevention Recommendations

- Use non-marking tires
- Avoid pivot-turns with forklifts
- Maintain a clean floor (debris increases heat/friction)
- Use protective mats in turn/high-friction areas
- Add wheel-cleaning stations

These measures reduce but do **not eliminate** tire marking.

Tire Mark Cleaning

Use:

- Neutral detergents
- Diluted degreasers
- Auto-scrubbers with white pads

Marks caused by **plasticizer migration may be permanent.**

Warranty Exclusion

U.S. Resin Supply does not warrant against:

- Tire marks
- Rubber shadowing
- Polymer staining
- Black streaks
- Hot tire pickup
- Rubber burnishing

These are **operational wear conditions** and fully the responsibility of the facility operator.

8. RECOMMENDED CLEANING EQUIPMENT

Auto-Scrubbers:

- White pads
- Soft brushes
- Microfiber attachments

Manual:

- Microfiber mops
- Soft nylon brushes

Detergents:

- Neutral cleaners
- Non-film-forming detergents
- Diluted degreasers

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9. REPAIR PROCEDURES

Minor Scratches

Clean → sand lightly → recoat

Chips/Gouges

Grind → clean → patch → sand → recoat

Large Areas

Contact U.S. Resin Supply Technical Services

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10. WARRANTY REQUIREMENTS

To maintain warranty:

✓ Follow cleaning procedures
✓ Prevent long-term chemical exposure
✓ Avoid impact, dragging, abrasion
✓ Protect high-use zones
✓ Follow recoat preparation guidelines
✓ Use only U.S. Resin Supply-approved repair materials

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11. TECHNICAL SUPPORT

U.S. Resin Supply & Manufacturing – Technical Services

Email: info@usresinsupply.com
Website: www.usresinsupply.com.com

12. LIMITATION OF LIABILITY & PROTECTIVE TERMS

(Enhanced Manufacturer Protection)

12.1 Mandatory Conditions of Use

Warranties apply **only if** installation and maintenance adhere 100% to U.S. Resin Supply & Manufacturing's instructions.

12.2 Warranty Exclusions

No responsibility is accepted for failures caused by:

- Bad preparation
- Moisture vapor
- Impacts
- Dropped tools
- Unapproved cleaners
- UV exposure (epoxy)
- Premature use
- Jobsite contamination
- Mechanical damage
- Tire marks or rubber transfer

12.3 Limited Liability

Manufacturer liability is limited to **replacement of defective material only.**
No labor, removal, downtime, or indirect damages are covered.

12.4 Claim Requirements

All claims require:

1. Photos
2. Moisture test results
3. CSP verification
4. Batch numbers
5. Installation climate data
6. Maintenance records
7. Chemical list

Without these, claims are **not reviewed.**

12.5 Unauthorized Modification

Any dilution, mixing, or blending voids all warranty.

12.6 Acceptance of Terms

Use of US Resin Supply products constitutes acceptance of all limitations and conditions herein.

U.S. RESIN SUPPLY & MANUFACTURING

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