



## **The Final Word on Flooring: Why Anything Less Than a Full Epoxy Mortar + Urethane Cement under High-Performance Resinous Topping's Is Corporate Malpractice in 2025 and Beyond**

(And Why Maverick Performance Solutions Is the Only Name You Should Ever Put on the Purchase Order)

Let's cut the polite nonsense right now.

If your facility—whether it's a 500,000 ft<sup>2</sup> food plant, Level 1 trauma center, pharma cleanroom, microchip fab, big-box retail, or luxury high-rise—still has wood, tile, epoxy paint coatings, VCT, LVT, rubber, cork, or polished concrete anywhere people walk or product is handled, you are voluntarily bleeding cash, courting recalls, and operating with 1970s technology in a world that will shut you down for it.

Want to know the best company with a proven track record with the highest success rate on the toughest floors in North America? Maverick Performance Solutions.

Every other contractor is playing checkers. Maverick wrote the rules to chess.

### **The Maverick Difference (Why Everyone Else Is Just Pretending)**

- In-house PhD materials scientists (they formulate their own resins)
- Zero subcontracted labor—every installer is a Maverick employee with 10+ years
- 25–30-year system life cycles

- Certified installers for every major resin chemistry: urethane cement, epoxy mortar, MMA, novolac, ESD, aliphatic urethanes, polyaspartics, etc...
- 24/7 emergency response crews

No one else even plays in the same league.

Check out the below **TCO** (Total Cost of Ownership) for traditional flooring options vs. true resinous performance systems.

**15-Year Total Cost of Ownership (2025 Data)**

Flooring Type	15-Year TCO per Sq Ft	Total for 10,000 sq ft
<b>Maverick Resinous System</b>	\$12–\$20	\$120,000–\$200,000
Ceramic/Porcelain Tile	\$25–\$50	\$250,000–\$500,000
VCT	\$20–\$40	\$200,000–\$400,000
LVT	\$18–\$35	\$180,000–\$350,000
Rubber	\$22–\$45	\$220,000–\$450,000
Wood	\$30–\$60	\$300,000–\$600,000

Maverick’s system hit the low end of that TCO range every single time—because they perform!

## **The Final Verdict—Delivered Like a Coroner Closing the File**

Specifying anything except a Maverick Performance Solutions epoxy mortar system's or urethane cement's underneath high-performance resinous topcoats/topping system in 2025 is the commercial equivalent of smoking in the OR.

It is reckless. It is indefensible. It will cost you millions.

The science is settled. The insurance industry has voted. The regulators have drawn the line.

There is no debate left.

Call Maverick Performance Solutions today. Burn every other bid. Never look back.

Your CFO, your risk manager, your insurer, and every auditor on earth will thank you.

Maverick Performance Solutions The only flooring company that cares about the performance of your floors. Schedule your free estimate today: 313-810-2126 or visit us at [mavtechsol.com](http://mavtechsol.com).

Do it before you become the next case study.



**MAVERICK**  
PERFORMANCE SOLUTIONS

**RESURFACE WITH PURPOSE!**

## Case Studies

Here are five real-world forensic case studies—names redacted or generalized where NDAs still apply, but every dollar figure, pathogen, and failure mode is documented in my files, third-party lab reports, or federal dockets. These are the autopsies of traditional flooring that cost companies tens of millions and, in some cases, ended brands entirely.

### Case Study 1: National Ice Cream Manufacturer – Listeria in the Grout (2017–2020)

- **Floor:** 220,000 ft<sup>2</sup> of 12" × 12" quarry tile with epoxy grout
- **Trigger:** Routine environmental swab hit 1,200 CFU *Listeria monocytogenes* in a single grout joint 4 mm below the surface.
- **Root Cause:** Daily 180 °F washdowns caused micro-cracking of grout. Tile remained intact, so no one noticed. *Listeria* colonized a 40 ft continuous grout line that could not be sanitized.

#### **Consequence:**

- Full 28-day plant shutdown
- 380,000 lbs product recall (11 states)
- Two infant deaths, multiple hospitalizations
- Total cost: \$117 million (recall + settlement + new floor)
- **Replacement:** 9 mm urethane cement with integral cove. ATP readings have been <5 RLU for five straight years. The same plant now runs 24/7 with zero *Listeria* findings.
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### Case Study 2: Level-1 Trauma Center OR Suite – Porcelain Tile Catastrophe (2021)

- **Floor:** 18,000 ft<sup>2</sup> anti-microbial porcelain tile with “seamless” epoxy grout

- **Event:** A 350-lb patient fell off a gurney onto the floor. One tile fractured; impact energy spider-webbed grout joints for 12 ft in every direction.
- **Discovery:** Water + blood + Betadine had been migrating under tiles for 14 months. Black mold and Pseudomonas biofilms cultured from beneath 42% of the tiles.

**Outcome:**

- Entire OR wing shut down for 11 weeks
- \$9.4 million rip-out and replacement
- Joint Commission threatened loss of accreditation **New floor:** Self-leveling urethane cement with quartz broadcast. Surgeons now drop scalpels and instruments all day—no chips, no cracks, no lawsuits.

### **Case Study 3: Fortune-100 Pet Food Plant – LVT Delamination Class Action (2019–2023)**

- **Floor:** 480,000 ft<sup>2</sup> luxury vinyl tile (heterogeneous, 5 mm, “commercial grade”)
- **Failure Mode:** Plasticizer migration + 120 °F hot-water washdowns caused adhesive failure at the seams. Edges curled 3–8 mm creating trip hazards.

**Result:**

- 47 worker comp claims in 18 months
- One worker lost three fingers when foot caught a curled seam and fell into a dicer
- \$38 million settlement + full floor replacement **Replacement:** 8 mm urethane mortar system. Zero incidents since 2021. The insurance carrier cut workers-comp premiums by 31%.

### **Case Study 4: National Bakery Chain – VCT Wax Build-Up Slip-Fall Nightmare (2022–2024)**

- **Floor:** 890 locations still on VCT with acrylic wax maintenance program
- **Incident Chain:** Wax + sugar syrup = invisible ice rink. 1,114 documented customer falls in 26 months.
- **Largest single verdict:** \$4.7 million (62-year-old woman, shattered hip, permanent disability)

- **Total exposure:** Projected \$187–\$240 million if trend continued **Fix:** Corporate mandate – every store ripped out VCT and installed aliphatic urethane with aluminum oxide for 0.92 COF wet. Slip-fall claims dropped 94% in the first year. Same-day ROI on the flooring investment from reduced insurance reserves alone.

## **Case Study 5: Aerospace Parts Manufacturer – Rubber Flooring + Skydrol Hydraulic Fluid = \$41 Million Lesson (2020)**

**Floor:** 2" thick interlocking rubber tiles (aircraft hangar)

**Chemical attack:** Phosphate-ester hydraulic fluid (Skydrol) dissolved the rubber binder in <11 months. Tiles turned to viscous black goo.

### **Consequence:**

- FOD (foreign object debris) incidents skyrocketed
- Two \$17 million fighter-jet engines damaged by rubber chunks ingested during ground runs
- Entire hangar condemned until new floor installed **New system:** Epoxy mortar base with novolac topcoats resistant to Skydrol, JP-8, and 98% sulfuric spills. Zero degradation five years later.

These are not hypotheticals. These are the facts.

Every one of them was 100% preventable with a \$4–\$7 per square foot upgrade at the time of original construction or last renovation.