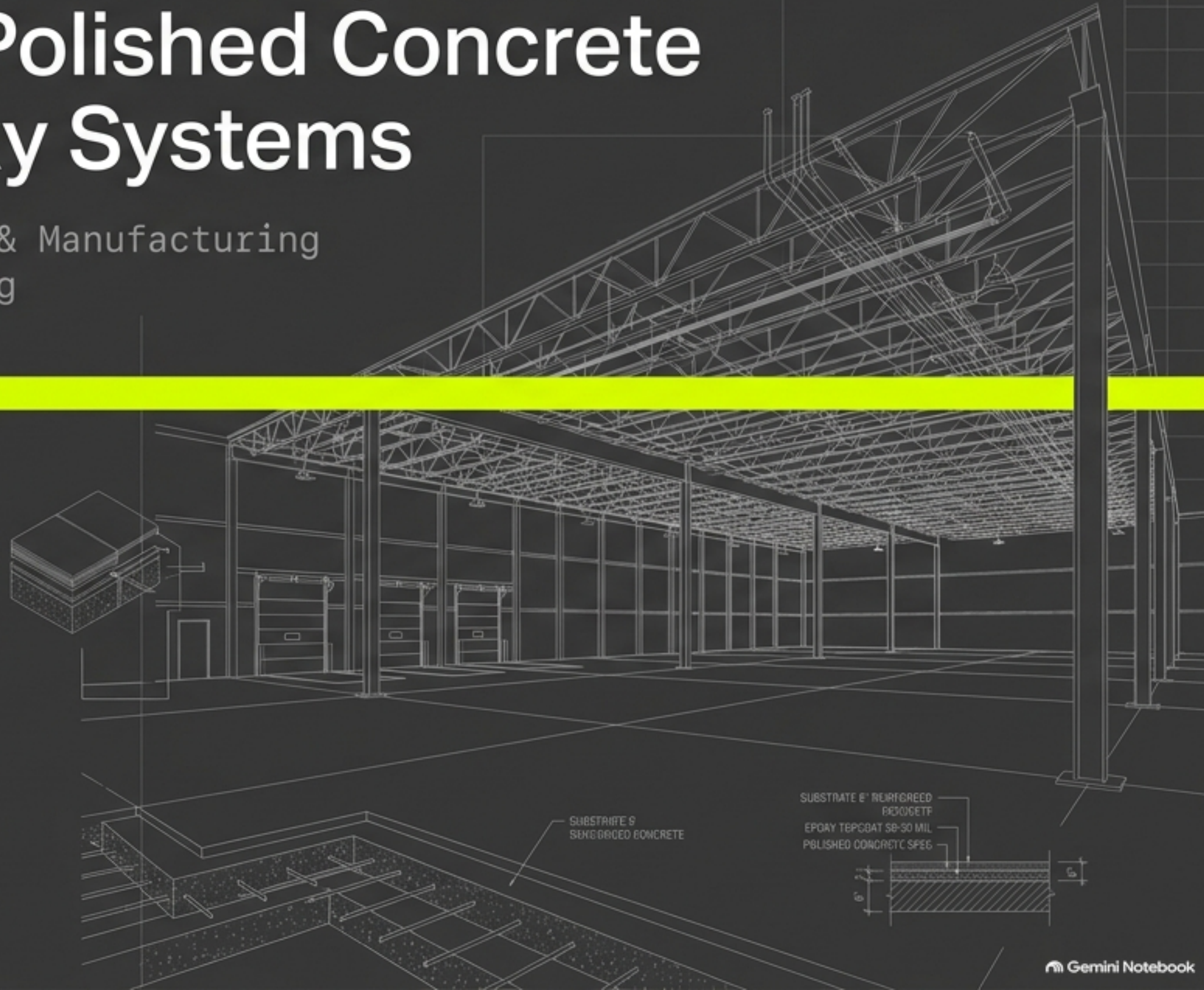


Industrial Warehouse Flooring Guide: Selecting Between Polished Concrete and High-Build Epoxy Systems

A Technical Diagnostic for Logistics & Manufacturing
Facilities in Greenville & Spartanburg



High-Build Epoxy Systems: The Heavy-Duty Baseline

DFT: 20-35 mils (Dry Film Thickness)

Rating: Heavy Forklift & Impact

Surface: Seamless & Non-Porous

Prep: Shot blast to CSP 3-4 profile

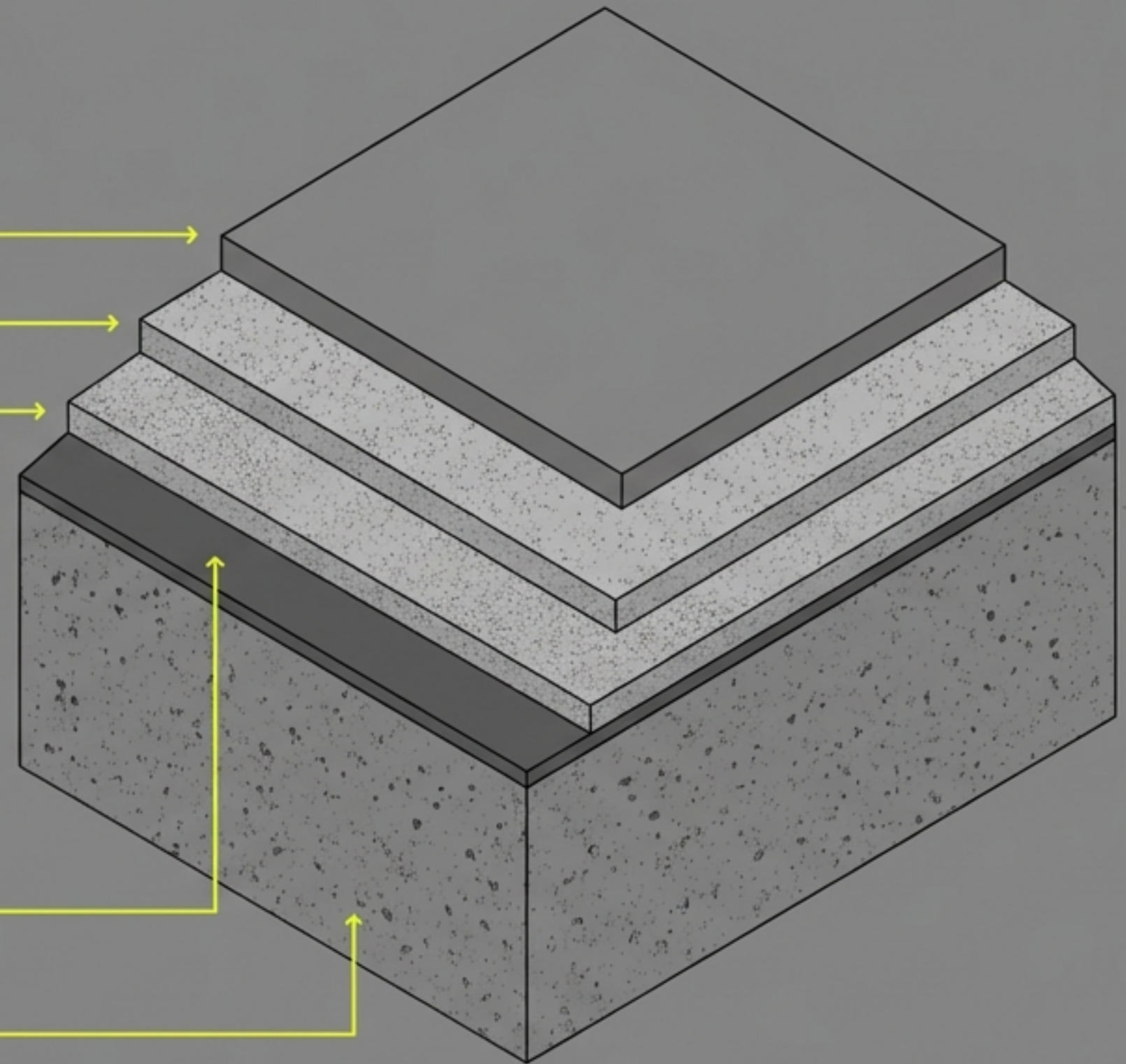
EC-34 Pigmented Topcoat:
Chemical & UV resistant finish

Second EC-32 Coat + Silica Sand:
Second anti-skid matrix

EC-32 Clear Epoxy Base Coat + Silica Sand:
First anti-skid matrix

EC-12 Epoxy Primer:
Deep penetration bond

Concrete substrate:
Must be 2500 psi, cured 28 days



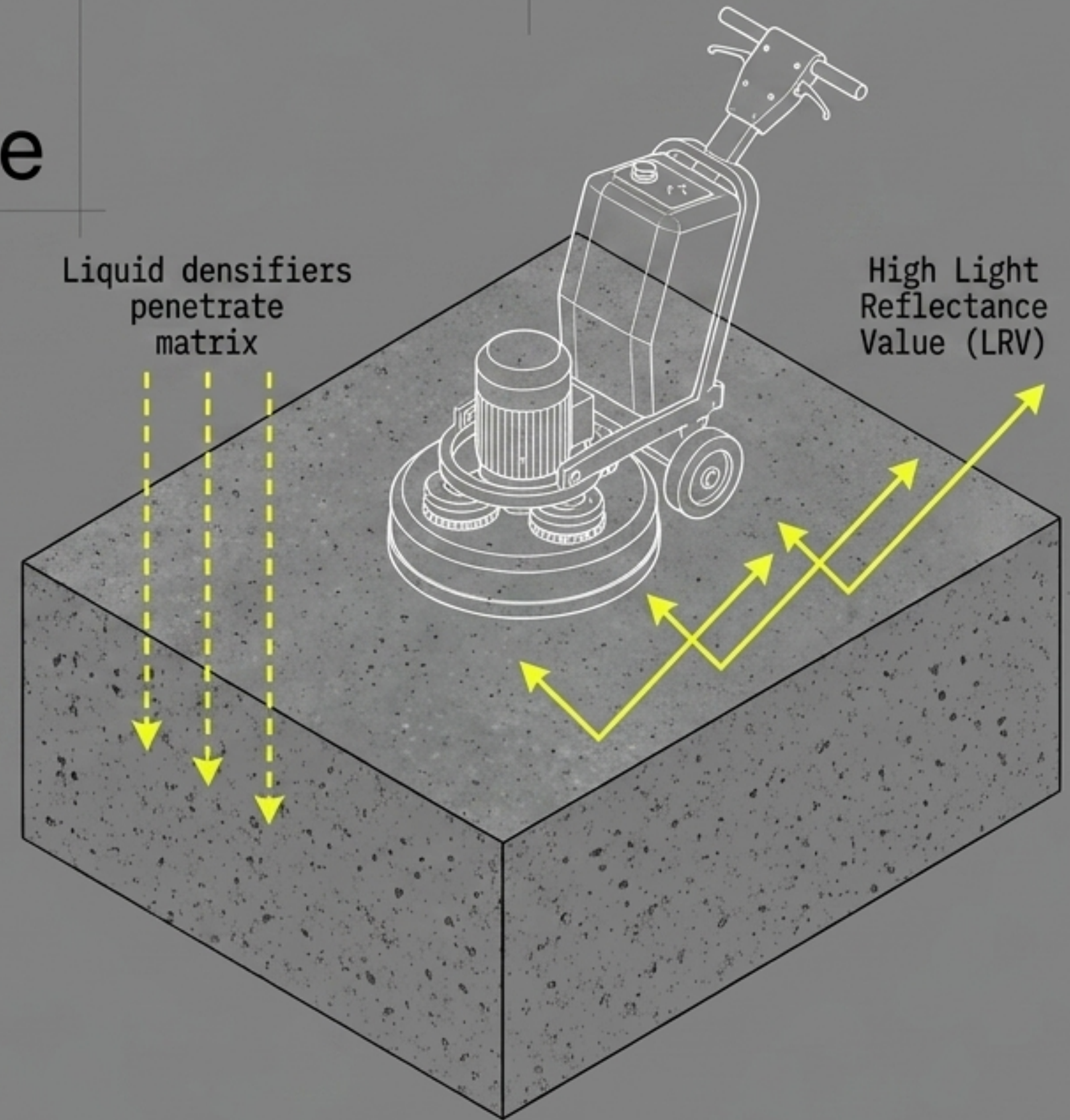
Polished Concrete Systems: The Low-Maintenance Baseline

Primary Benefit: High Light Reflectance Value (LRV)

Maintenance: Dustproof, easy sweep/mop

Air Quality: Low-VOC / Zero Outgassing

Best Environment: Low-moisture storage & clean logistics



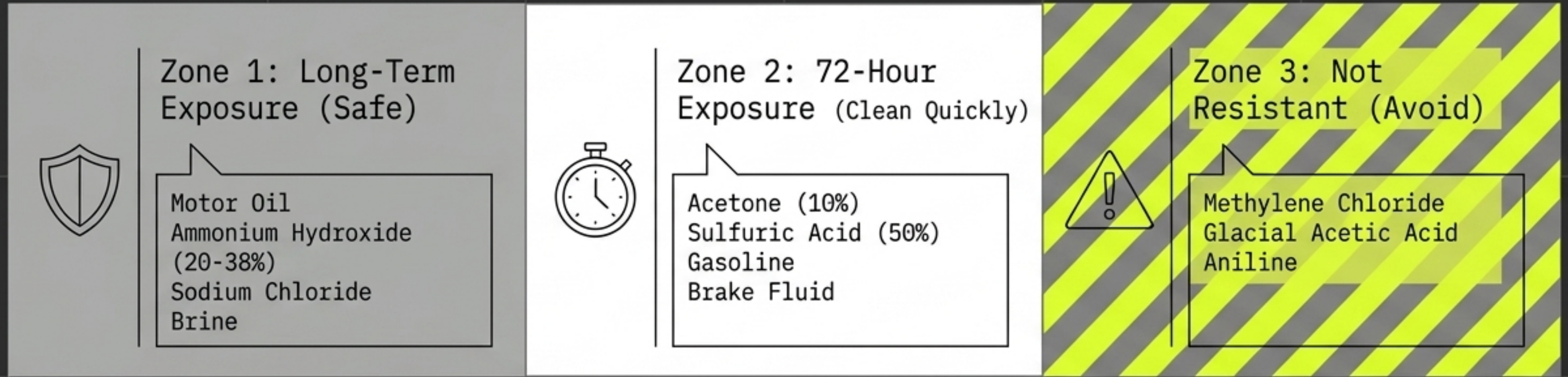
Performance Comparison Matrix: Polished Concrete vs. High-Build Epoxy

Evaluating lifecycle performance for industrial applications.

Variable	Polished Concrete	High-Build Epoxy
Initial Cost	\$5-\$7 / sq ft	\$10-\$15 / sq ft
Impact Resistance	Moderate 	Extreme 
Chemical Spill Resistance	Low/Porous 	High/Impermeable 
Installation Downtime	Phased/Flexible	2-3 Days / Fast-Cure Options Available
Slip Resistance	Standard	OSHA Compliant/Textured

Chemical Hazard Spectrum: Epoxy Resistance Profiles

Condensed Dural Epoxy Chemical Resistance guidelines for common industrial exposures.



The Installation Variable: Heat, Moisture, and Outgassing

Mitigating the 2026 heatwave bubbling failures in Upstate SC climates.

The Failure Path

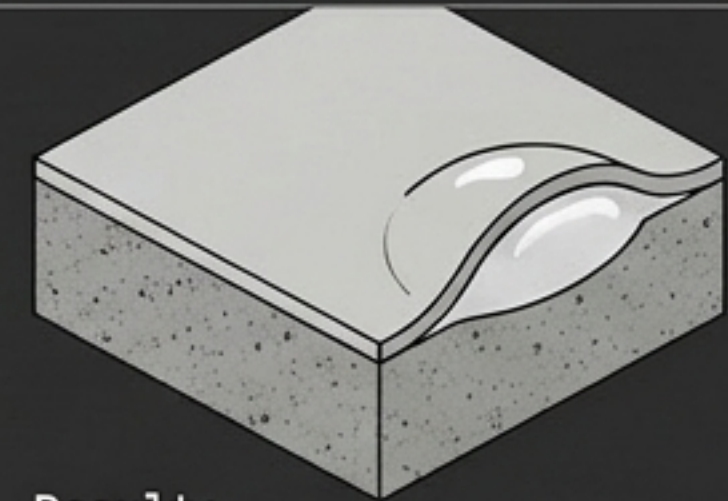
High ground
moisture (RH) +
Extreme Heat.



Inadequate
surface prep
(Grinding only).



Rigid, slow-curing
standard epoxy
traps outgassing.



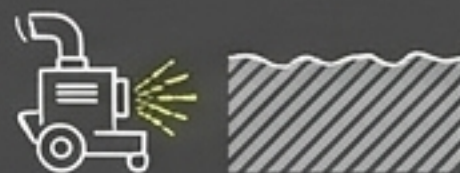
Result:
Vapor Pressure Bubbling
and delamination.

The Success Path

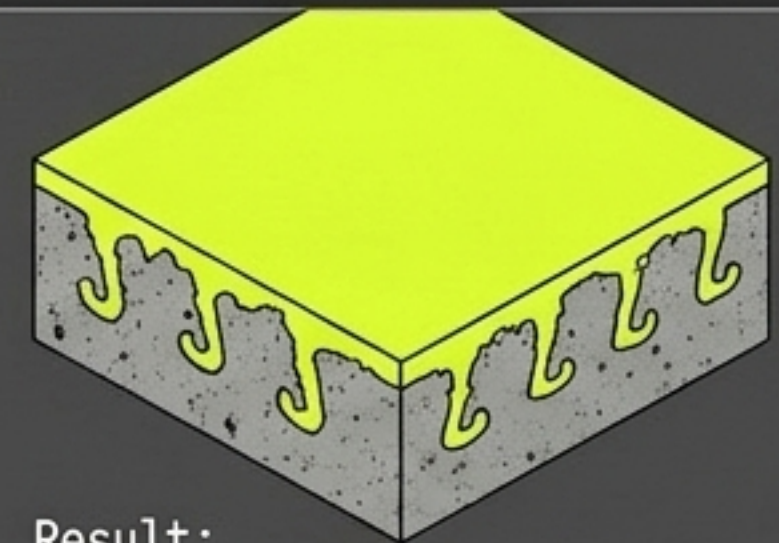
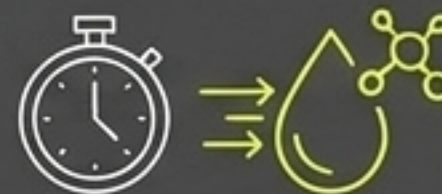
28-day concrete
cure + Moisture
mitigation.



Mechanical shot
blasting (Sase Bull
1250) to CSP 3-4
profile.



Polyaspartic/Cyclo-
Spartic fast-cure
technology applied.

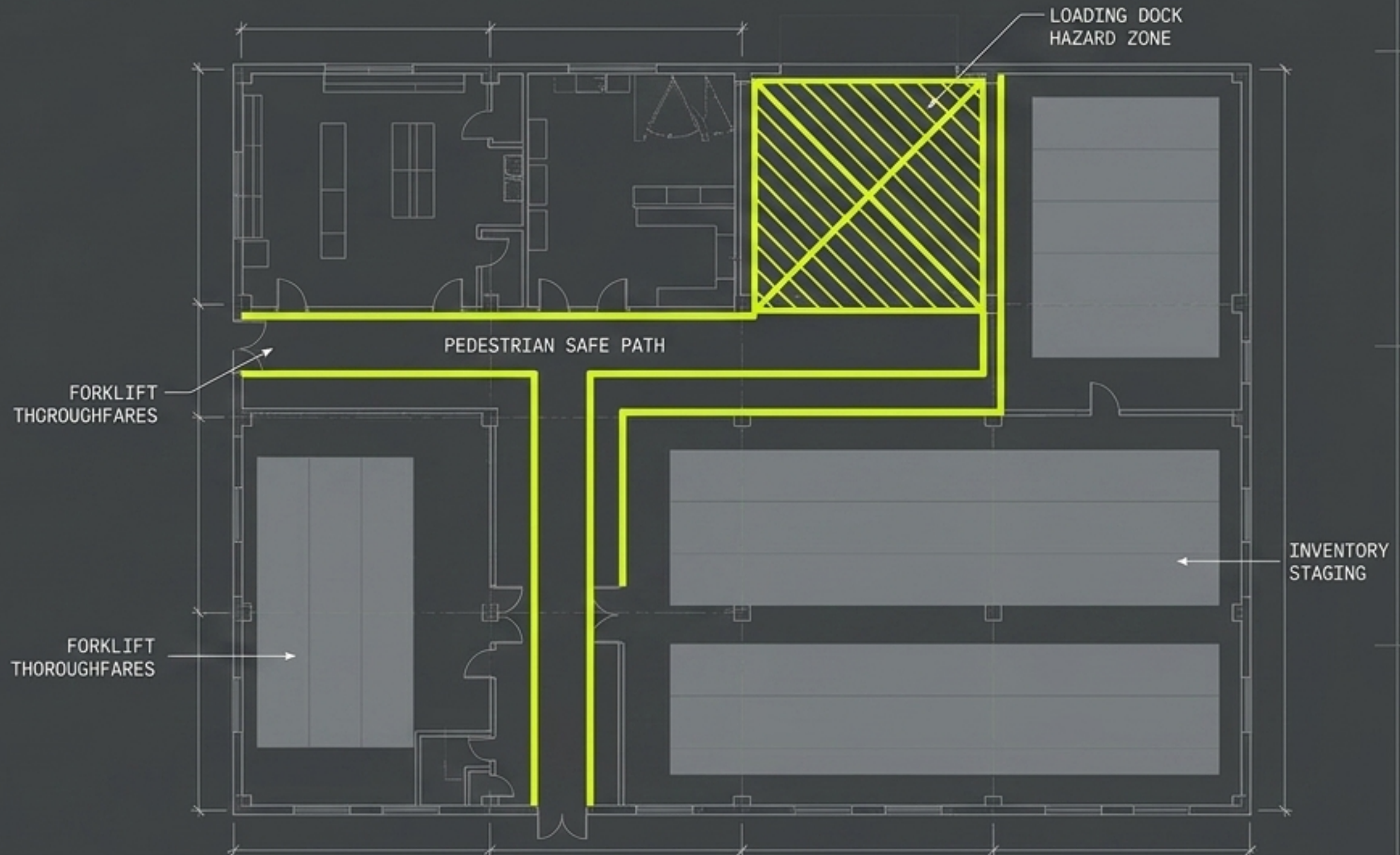


Result:
Flexible, secure bond that
withstands temperature swings.

OSHA Compliance & Safety Markings

Integrating permanent workflow boundaries into the structural coating.

- Eliminates temporary floor tape.
- Resists heavy forklift tire scrubbing.
- Permanent anti-slip aggregate integration.



Synthesis & Next Steps: The Upstate SC Context

Diagnostic Decision Tree for Facility Managers

