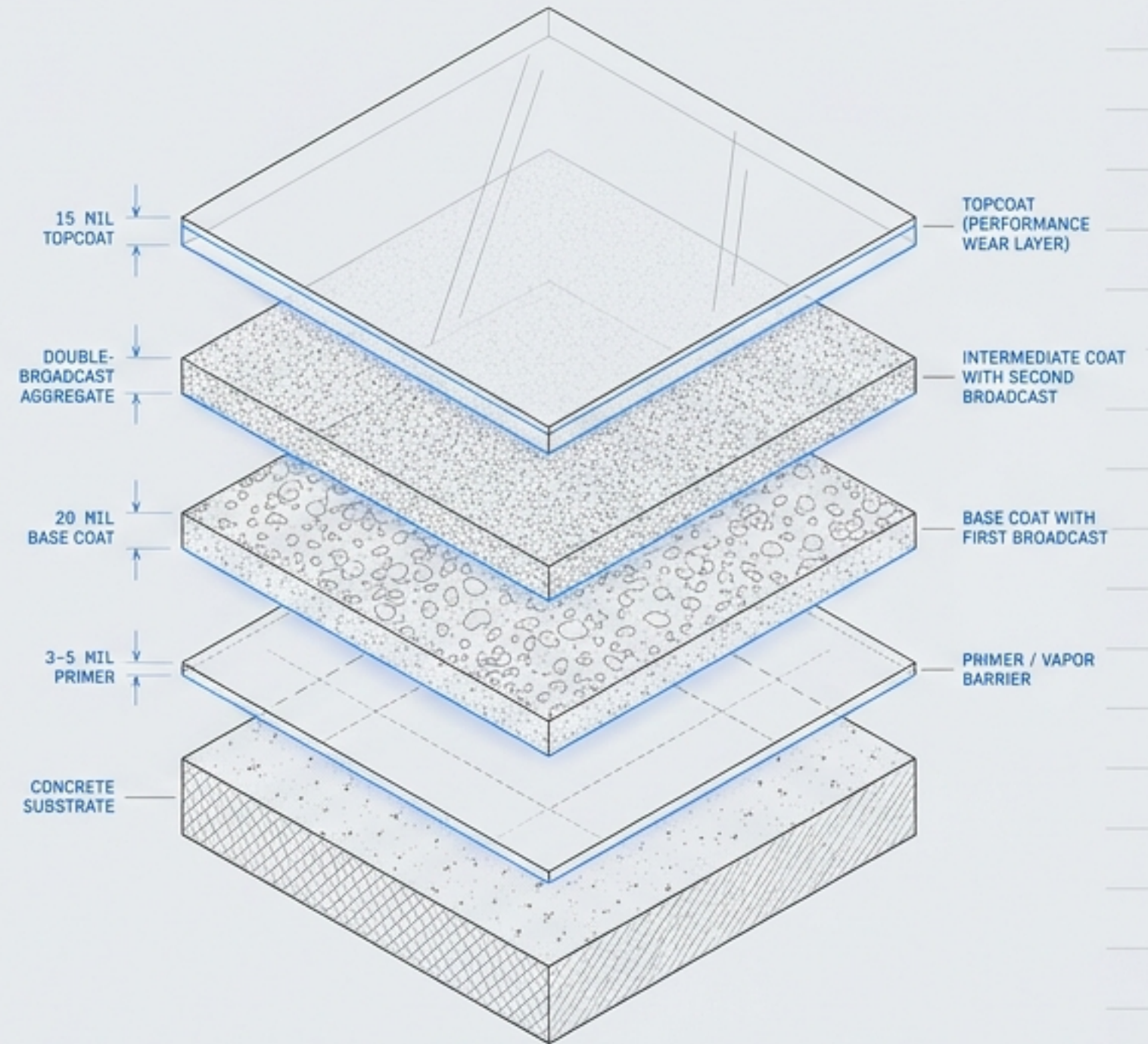


RESINOUS FLOORING DESIGN & SPECIFICATION

Technical guidelines for specifying high-performance, heavy-duty, double-broadcast aggregate systems under **CSI 09 67 23**.

A comprehensive technical reference for Architects, Facility Managers, and General Contractors outlining the installation, material science, and compliance standards for commercial resinous flooring.



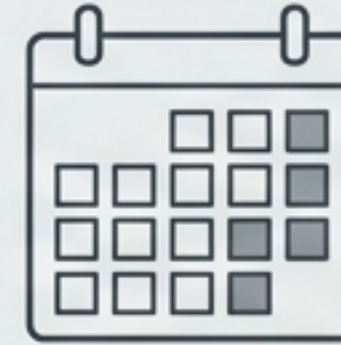
DOCUMENT TYPE: TECHNICAL SPECIFICATION		
DRAWING NO: RF-001		
SHEET: NTS	DATE: 2024.05.20	REVISION: A

Pre-Installation Concrete Diagnostics & Thresholds



2,500 PSI Minimum

Mandatory structural requirement.



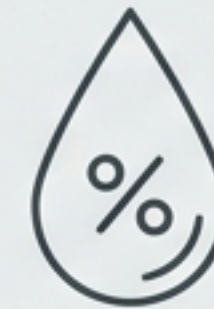
28 Days Minimum

Mandatory concrete cure cycle prior to coating.



≤ 5 lbs / 1,000 sq. ft. per 24 hrs

Standard: ASTM F1869 (Calcium Chloride Test).
If > 5 lbs, specify [EC-15 Moisture Vapor Barrier](#).

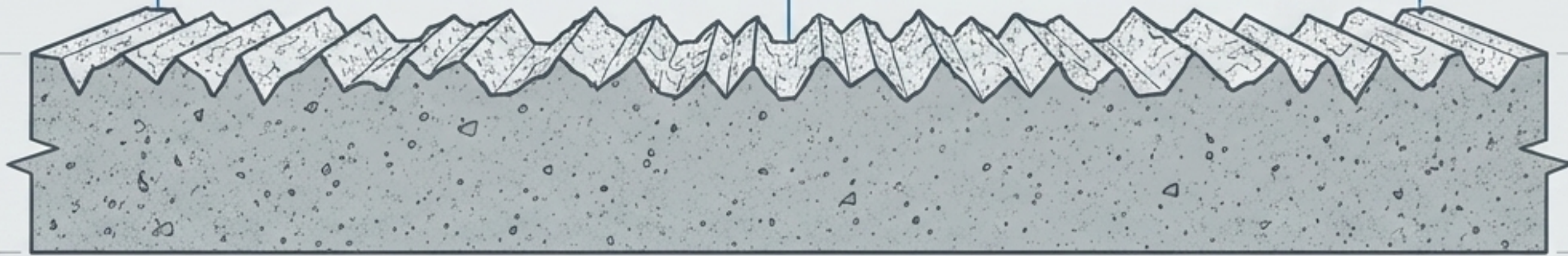


$\leq 75\%$ RH

Standard: ASTM F2170.
If > 75%, specify [EC-15 Moisture Vapor Barrier](#).

Mechanical Surface Preparation & Profiling

Core Specification: Achieve a Concrete Surface Profile (CSP) of 3 to 4 as specified by ICRI.



Phase 1: Profiling

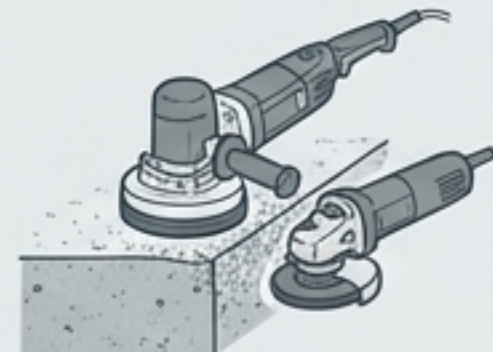
Equipment:
Sase Bull 1250
Shot Blaster



Action:
Removes weak laitance and creates the primary bonding profile.

Phase 2: Edge & Detail Work

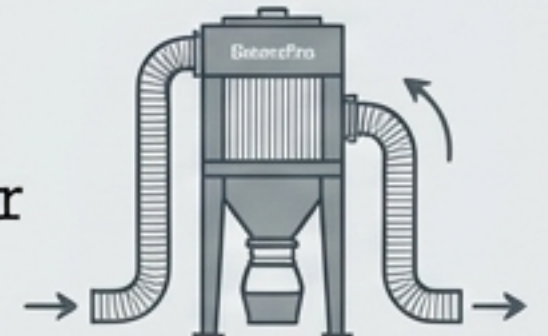
Equipment:
Husqvarna PG 830
Planetary Grinder
/ Hand Grinders



Action:
Preps edges, corners, and tight spaces for uniform adhesion.

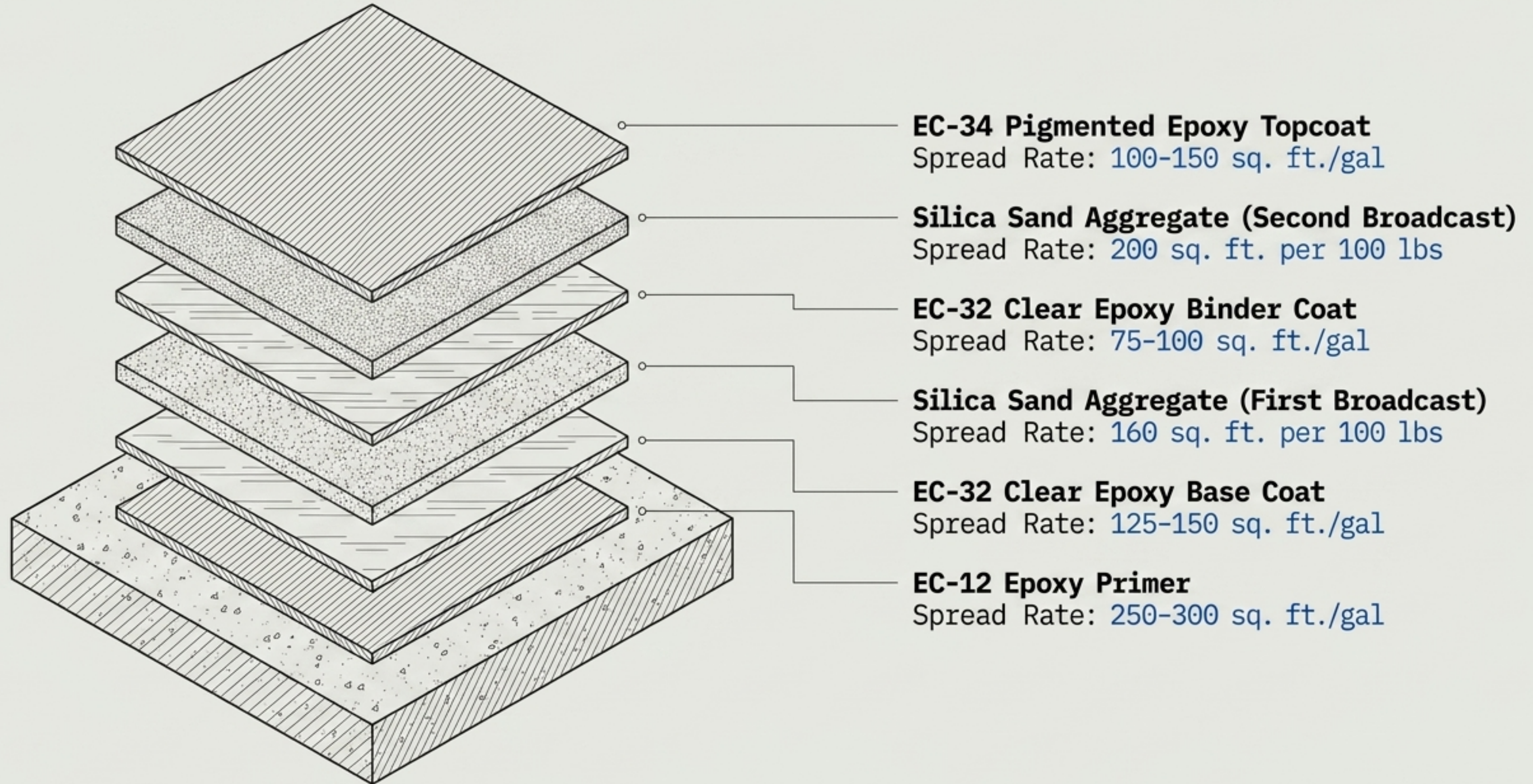
Phase 3: Contaminant Control

Equipment:
Diamapro SVX3-A
HEPA Dust Collector



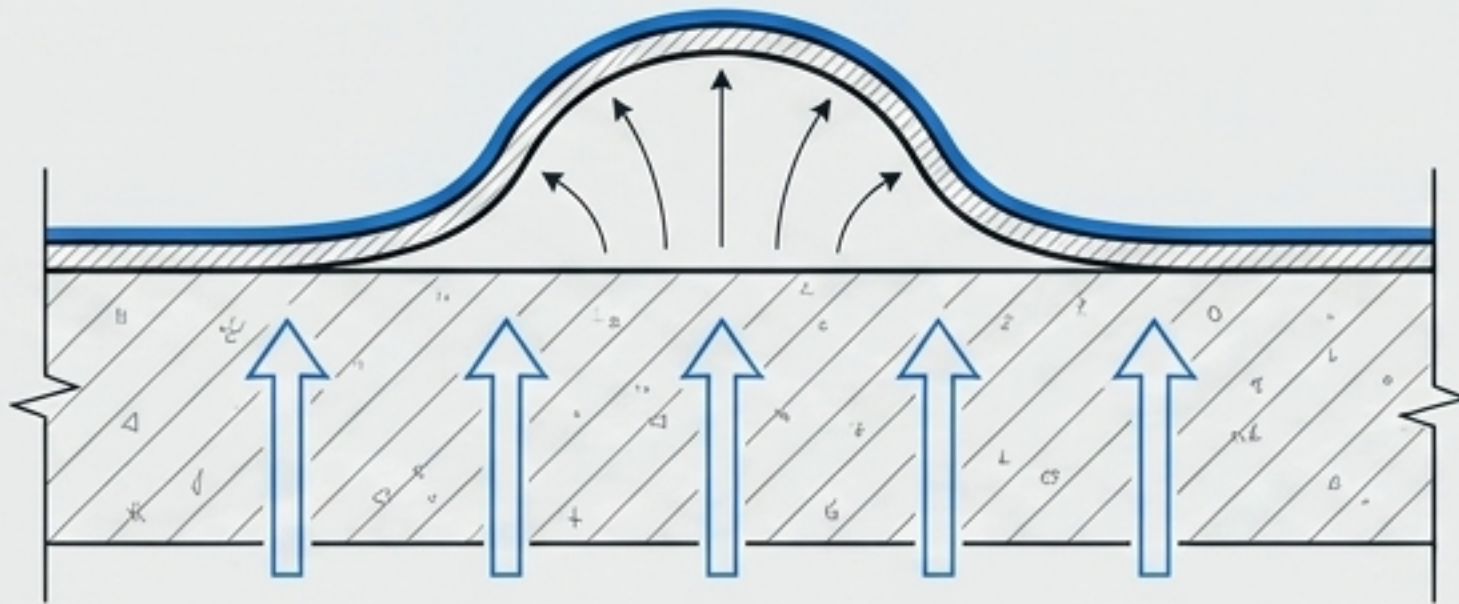
Action:
Extracts silica dust to maintain OSHA compliance and an uncontaminated bonding surface.

Westcoat Dubro System: 100% Solids Double-Broadcast Architecture



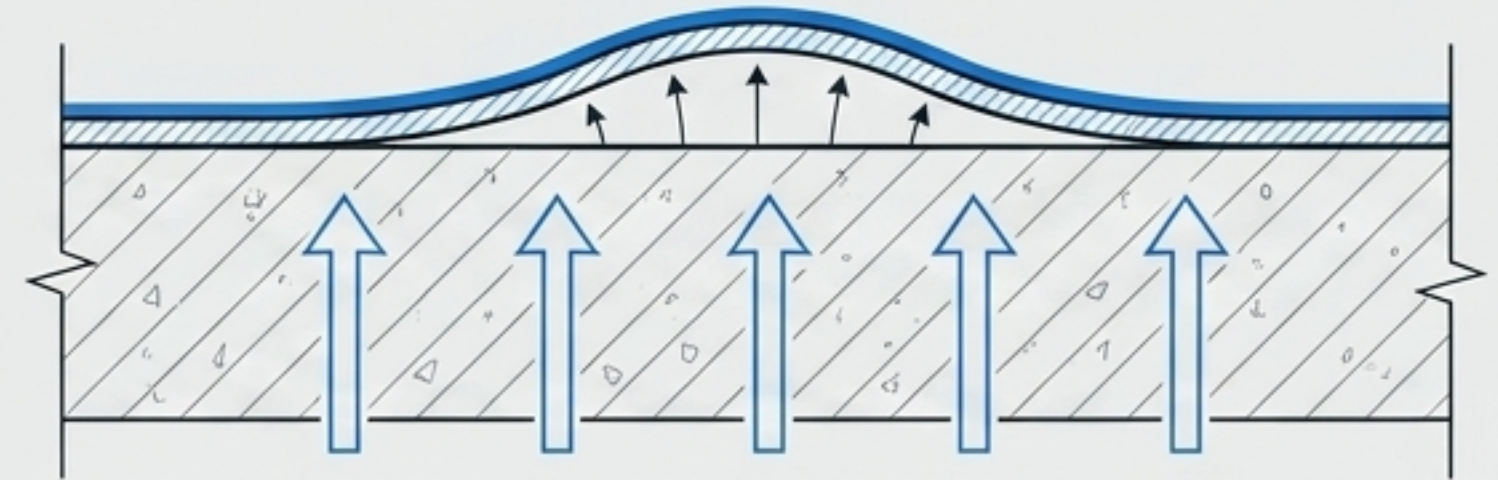
Thermal Dynamics: Preventing Outgassing & Delamination

The Epoxy Vulnerability



Traditional epoxy cures slowly (12-18 hours) and forms a rigid film. In extreme heat, expanding moisture vapor gets trapped, causing edge blistering and surface bubbles.

The Polyurea/Polyaspartic Solution



Polyurea systems cure rapidly, closing the window for outgassing. They operate in extremes (-30°F to 140°F) and flex with the slab's thermal expansion.

Advanced Protective Topcoat Substitution Matrix

Environmental Challenge	Specification (Product)	Application & Performance Profile
 Extreme Chemical or Heat Exposure	Novolac Epoxy (EC-50)	Substitute final topcoat. Ideal for aggressive industrial manufacturing.
 High UV Exposure & Surface Marring	Polyurethanes (SC-65 / EC-95)	Overlay final topcoat. Available in gloss (SC-65G), semi-gloss (SC-65SG), or flat (SC-65F) finishes.
 Tire Staining & Rapid Return-to-Service	Polyaspartics (EC-101 / EC-102)	Overlay final topcoat. 100% solids, non-yellowing, high-build clear coats.

Standardized Chemical Resistance Profiling

Testing Parameters Legend

LT =	Long Term Exposure
72 =	72 Hour Exposure limit
SS =	Splash and Spill (requires daily clean-up)
NR =	Not Resistant

Data Verification

CHEMICALS	SS	SS	AC	AA	AM	AM
Acetic Acid - 10%	SS	SS	72	72	72	72
Acetic Acid - 50% to Glacial (100%)	NR	NR	NR	NR	SS	SS
Acetone- 10%	72	72	72	72	72	72
Acetone- 100%	SS	SS	72	72	72	72
Ammonium Hydroxide - 20%	LT	LT	LT	LT	LT	LT
Ammonium Hydroxide - 38%	LT	LT	LT	LT	LT	LT

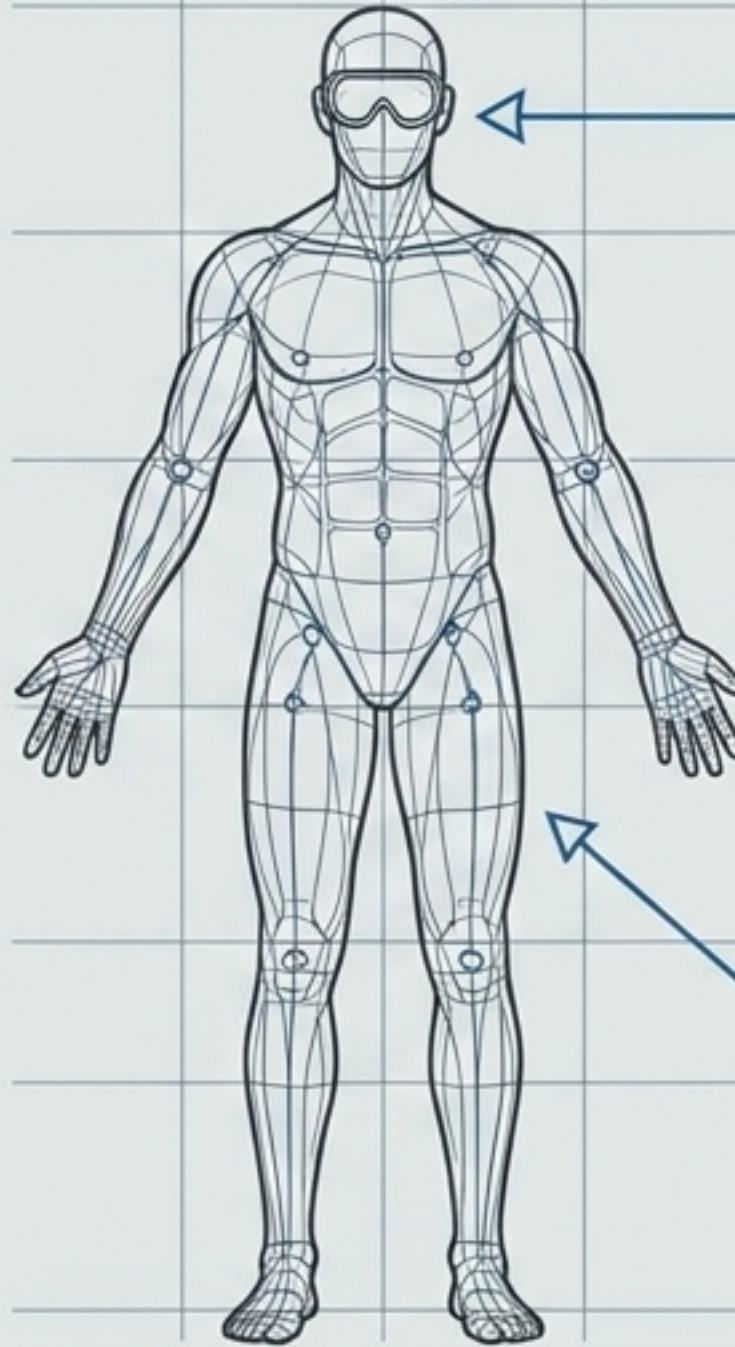
Installer Safety & Handling Protocols

Hazard Profile (Cycloaliphatic Amine Curing Agent)

H314: Causes severe skin burns

H318: Causes severe eye damage

H411: Aquatic toxicity. Prohibit flushing spills down standard drains. Ensure adequate local exhaust ventilation.



Head Protection

Splash Goggles or full-face supplied air respirator for aerosol risks.



Hand Protection

Impermeable chemical-resistant gloves.



Body Protection

Protective apron and protective boots to prevent localized skin burns.



OSHA Slip Compliance & Return-to-Service Phasing



OSHA-Compliant Slip Resistance: Integration of texturizing aggregates (CA-30/CA-31 Safe Grip or Quartz) directly into the topcoat layer to meet mandatory workplace friction standards.



0-48 Hours

Prohibit all pedestrian traffic.



72 Hours

Minimum wait time for vehicular and forklift traffic.



5 Days

Full cure. Floor can withstand heavy abrasion and chemical exposure.