



Green-Safe Technology

Fast Track, two component 100% solids vapor remediation system designed for use with CMP engineered cements and finished flooring systems

DESCRIPTION:

V-25 is a 2-component 100% solids, low viscosity epoxy system. It is capable of reducing moisture vapor emission (MVER) from up to 25 lbs down to 3 lbs or less, protecting finished floor covering and adhesives. V-25 can be used on, above or below grade for both interior and exterior applications and can be applied to moist or "Green" concrete that is at least 5 days old. If CMP underlayments, toppings or finished floor coverings are applied within the "Open Time", V-25 does not require any additional priming.

09 96 56
Epoxy Coatings

3

07 26 00
Vapor Retarders

9

PRODUCT FEATURES:

- ▶ V-25 applies directly to moistened substrate, no primer required
- ▶ Does not require sand broadcast
- ▶ Reduces MVER from 10, 15 or 25 lbs to 3 lbs or less per ASTM F-1869
- ▶ Can receive coatings or floor covering in as little as 5 hrs*.
- ▶ Can be used interior or exterior
- ▶ Works on both moist and 5 day old "Green" concrete
- ▶ Meets USDA guidelines and will not support the growth of mold or mildew
- ▶ Alkalinity protection pH 14
- ▶ 0 g/L VOC content

SURFACE PREPARATION:

Remove all existing floor covering then Shot-Blast, Grind, Shave or use Hydro-Demo to bring substrate down to bare, clean, structurally sound concrete with a minimum ICRI CSP 3-5. Acid etching or chemical cleaning can NOT be used. All concrete substrates must have a Min. compressive strength of 2500 psi, be clean, sound and have an absorptive surface. Gypsum underlayments, cannot be treated with V-25. Torch off and vacuum any exposed reinforcing fibers. Chase non-moving cracks, thoroughly clean and fill with V-25. Clean all dynamic joints such as expansion, isolation and control by applying a layer of V-25 into the joint with a paint brush. Completely coat the walls of the cavity, after initial cure treat joint as required to accommodate finished flooring as per manufacturers guidelines. Note: Moving cracks can breach Vapor System and allow free passage of moisture. Perform structural crack repairs following industry standards prior to application where required.

SUBSTRATE TESTING:

Contaminates: CMP recommends facility owner does core testing when slab history is unknown and requires testing for written warranty applications. Contact CMP for test, contaminates and laboratories.

Moisture: Conduct Anhydrous Calcium Chloride per ASTM F-1869 to determine the MVER in lbs / 24 hours per 1000 sq ft. Additionally, conduct RH test per ASTM F-2170 to determine moisture content.

Note: Significant variations in MVER can occur in different sections of the slab and the MVER can fluctuate significantly depending on season. This should be considered when selecting suitable coverage rate for mitigation. Perform a test application followed by pull testing on older slabs that may have had a sealer applied or where an epoxy coating has been removed.

MIXING: (Material should be 60°F minimum at time of mixing.)

Use chemical resistant gloves and goggles when mixing or applying V-25 and use a NIOSH /MSHA approved respirator when working in poorly ventilated areas. V-25 comes supplied in the proper mix ratios; only mix complete kits. Do not thin, alter or add "Cab-O-Sil" to the mix. Add all of part B by piercing a hole through the top and bottom of the container. Allow ALL of Part B to drain into Part A and mix

Packaging:

2.4 Gallon Premeasured Unit

Color:

Clear

Shelf Life:

6 Months

Storage:

Store in cool, dry area at 70°

Coverage per KIT:

Note: Application thicknesses are approximate. Some variations may apply due to porosity and absorption of substrate.

Per Calcium Chloride (ASTM F-1869)

10 lb. Mitigation: 370 sq. ft. (10 mils)
15 lb. Mitigation: 310 sq. ft. (12 mils)
25 lb. Mitigation: 190 sq. ft. (20 mils)

Per RH-Testing (ASTM F-2170)

Up to 89% Mitigation: 310 sq. ft.
90 - 94% RH Mitigation: 250 sq. ft.
95 - 100% RH Mitigation: 190 sq. ft.

Number of Coats Required:

Single Coat System

Application Temperature Range:

50° F - 90° F

Pot Life: (75° F)

60 minutes (Increase in temperature will decrease the amount of pot life)

Accepts Foot Traffic and Coatings:

5 hours @ 72° F

thoroughly for approximately 3 minutes using a low speed (300 rpm) drill and Jiffy type wand. Mix until a uniform color and consistency is achieved. Avoid any mixing actions that would entrap air in the mix and be sure all material on the sides and bottom is thoroughly incorporated into the matrix.

APPLICATION: (V-25 cannot be spray applied)

Protect application area from sun, rain, moisture, wind and drafts for 4-6 hrs at 70° F. Minimum slab and air temperature for application is 50° F. To prevent pinholes dampen all areas to be treated 2-3 times with clean potable water prior to application. Bring prepared substrate to **SSD** (Saturated Surface Dry) with no puddling or water sheen on surface. Maintain **SSD** throughout application. Have a finish mop and wringer pail available if excess water needs to be picked up. To ensure proper coverage, carefully measure and mark out sections for the application of each V-25 Kit. On large scale projects, additional manpower may be required to complete each step quickly so the process moves in a continuous manner.

Pour the mixed V-25 and distribute evenly over moist substrate with a notched squeegee in the defined coverage area. Carefully work material into the pores of the concrete with a long handled brush. Back roll immediately with a non-shed roller to achieve uniform coverage; work your way out of the material. Re-apply V-25 to any out-gas channels or pin-holes after grinding surface and cleaning with Isopropyl alcohol.

UNDERLAYMENTS, TOPPINGS & FLOORCOVERING:

Application of floor coverings and CMP cement based products must be done within the “Open Time” 5*- 48 Hours (Depending on Temp and Humidity) after V-25 installation. If Open Time window is missed, V-25 must be sanded, cleaned with hot water, and dried completely. Once dry, apply 1 coat of CMP AS-100 primer undiluted (Neat) using a 3/8 nap roller. Apply thin, leaving no puddles or bare spots. Allow primer to dry min. 2 hrs, max. 24 hrs.

Water based adhesives require a 1/8” (3 mm) thick cement based underlayment to absorb moisture from the adhesive (check with adhesive manufacturer).

Pressure sensitive adhesives installed directly over V-25 will require a longer “tack time” than specified by manufacturer to prevent adhesive moisture or solvent entrapment.

APPLICATION NOTES:

1. Observe RH and Dew Point when installing coatings or floor covering over V-25. Do not install flooring or coatings if V-25 is wet due to Dew Point.
2. Post-cracking of the concrete, slab warping or warping relaxation at joints or cracks after installation may cause a breach in the V-25 and void warranty.

Required Tools:

Soft-edge notched squeegee, non- shed synthetic roller, long handled scrub brush, pump-up type sprayer, metal athletic cleats or lawn aerators, low rpm drill, jiffy type mixing paddle

Eligible LEED credits : 2

Low Emitting Materials-Coatings (IE 4.2)
1 Point

Waste Management - Pails (MR 2.1)
1 Point

Qualifying Warranties:

1 Year, 10 Year, Lifetime

Health & Safety:

Please refer to the Material Safety Data Sheet (MSDS) prior to using this product. MSDS sheets are available by calling 215.672.6364 or you can visit www.levelingcements.com

Flammability: (ASTM E84)

Flame Spread: -0-
Fuel Contribution: -0-
Smoke Development: -0-

Clean Up:

Clean with mineral Spirits immediately after use

Manufactured By:

CMP Specialty Products, Inc
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Phone: 215.672.6364
Fax: 215.672.6384
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