MAXXON®
COMMERCIAL

MVP Two-Part Epoxy

TECHNICAL DATA SHEET
APRIL 2023

PRODUCT DESCRIPTION

Maxxon® Commercial MVP Two-Part Epoxy is a 100% solids epoxy coating specially designed for interior use over concrete with high moisture and/or pH levels. Maxxon Commercial MVP Two-Part Epoxy manages moisture levels up to 100% RH and prevents alkalinity (up to pH 14) in concrete subfloors from negatively affecting adhesives, underlayments, and floor coverings.

Maxxon Commercial MVP Two-Part Epoxy has excellent substrate-wetting capabilities to promote penetration and adhesion.

WHERE TO USE

Application
Commercial construction.

Subfloor
Interior concrete subfloors below, on or above grade

FEATURES & BENEFITS

- For use over concrete slabs up to 100% RH, 25 lbs. (11.3 kg)/1000 ft² (92.9 m²) MVER and pH of 14
- Perm rating (ASTM E96): < 0.10
- Meets ASTM F3010
- Fast cure in as little 4 hours
- Zero VOCs
- Low viscosity promotes superior penetration and adhesion

PRODUCT INFORMATION

MVER (ASTM F1869)	Up to 25 lbs (11.3 kg)/1000 ft² (92.9 m²)
RH (ASTM F2170)	Up to 100%
Permeance (ASTM E96)	<0.10 (125 ft²/gal)
Alkalinity Resistance	Up to 14 pH
VOCs	0 g/L
Color	Amber, dries translucent
Tensile Strength (ASTM D638)	5500 psi (38 MPa)
Pull-Off Strength (D7234/D4541)	>500 psi
Installation Temperature	45–95 °F (7–35 °C)
Working Time	20 minutes at 77 °F (25 °C)
Curing Time	4 hours at 77 °F (25 °C)
Coverage	One kit covers 375 ft² (34.8 m²); 125 ft² /gal (3.06 m²/L)
Kit Packaging	3 gal (11.4 L) kit with 2 gal (7.6 L) Part A and 1 gal (3.8 L) Part B



INSTALLATION

Concrete Subfloor Preparation

Building interior and floor should be maintained between 45 °F (7 °C) and 95 °F (35 °C) for at least 24 hours prior to installation and until primer has dried. Turn off radiant heat systems 24 hours prior to and after installation.

Concrete surfaces must be absorbent, clean, dust-free, structurally sound and free of bond-breakers such as oil or grease, sealers or other contaminants that could prevent proper adhesion of the product (see Limitations).

Concrete must comply with all industry standards, including, but not limited to, American Concrete Institute's (ACI) Guide to Durable Concrete. Soft or chalky material must be mechanically removed until hard substrate is exposed.

Shot blast concrete surface to a CSP 3-4 in accordance with industry standards. The concrete subfloor must have a minimum tensile strength of 175 psi when tested per ASTM C1583. Vacuum substrate with a HEPA filtration industrial vacuum to remove dust and debris.

Cracks in the existing concrete subfloor must be inspected by a professional structural engineer to determine if the crack is static or dynamic. Repair all existing cracks in old and new concrete to minimize and control the floor underlayment. Note that repairing existing cracks in the concrete subfloor only subdues but does not completely prevent their ability to telegraph through floor underlayment.

Tools

- Tape measure
- Marking tape or chalk
- Chemical safety glasses or splash-proof goggles
- Protective gloves
- NIOSH/OSHA-approved organic vapor respirator
- Notched/smooth squeegee
- Electric drill (300–400 rpm)
- Jiffy Mixer (preferred)
- Non-shedding 1/4" (6 mm) or 3/4" (19 mm) nap phenolic core roller cover
- Wet mil. gauge
- Non-metallic cleated shoes
- Long sleeved shirts and trousers
- Emergency showers and eye wash stations should be readily accessible

INSTALLATION *Continued*

Application Preparation

Protect the work area from the elements and properly ventilate. Applicators should wear appropriate personal safety equipment. Prior to application, it is recommended to mark off an area of 375 ft^2 (34.8 m^2) per Maxxon Commercial MVP Two-Part Epoxy kit to ensure proper coverage.

Application No Sand Broadcasting

No sand broadcasting requires just one coat of Maxxon Commercial MVP Two-Part Epoxy.

Pour the entire contents of Maxxon Commercial MVP Two-Part Epoxy out of the pail after mixing or material may reach an extreme temperature and possibly combust.

The concrete subfloor and room temperature must be between 45˚F and 95˚F before, during, and after the application of Maxxon Commercial MVP Two-Part Epoxy.

Pour entire contents of part B into part A. The entire kit must be mixed at once.

Using a Jiffy Mixer, mix all material thoroughly for three minutes.

Expansion/control joints: To properly treat expansion/control joints, coat the expansion/control joint sidewalls and bottom with Maxxon Commercial MVP Two-Part Epoxy and allow to fully cure. After expansion/control joint cures, fill cavity with joint sealant or filler as specified by engineer/architect.

Pour entire contents of Maxxon Commercial MVP Two-Part Epoxy out of pail immediately after mixing, as the material may reach high temperatures and possibly combust.

Spread mixed material with a notched squeegee. Concrete subfloors having MVER levels up to 25 lbs (11.3 kg)/1,000 ft^2 (92.9 m^2)/24 hrs. and RH levels up to 100% require an 11 mil coverage rate, which is 375 ft^2 (34.8 m^2) per kit.

While still wet, back roll Maxxon Commercial MVP Two-Part Epoxy with roller for even distribution.

With the penetration of Maxxon Commercial MVP Two-Part Epoxy into the pores and capillaries of concrete slab, displacement of air occurs and may cause formation of air channels and bubbles in the coating. This will not affect the moisture mitigation properties of Maxxon Commercial MVP Two-Part Epoxy.

Maxxon Commercial MVP Two-Part Epoxy cures in approximately four hours at 77 °F (25°C), depending on ambient conditions.

INSTALLATION *Continued*

Allow Maxxon Commercial MVP Two-Part Epoxy to cure at least four hours, or until tack-free. Coated floor must be protected from dust and debris until a Maxxon primer and underlayment can be applied. Apply Maxxon® Commercial Multi-Use Acrylic primer (undiluted) at a coverage rate of 300 ft^2 per gallon. Install a Maxxon underlayment according to the installation instructions on the specific product's Technical Data Sheet.

If surface of the coated floor is to remain uncovered for an extended duration, contact Maxxon Corporation.

Application with Sand Broadcasting

For applications requiring a sand broadcast, please contact Maxxon Corporation.

LIMITATIONS

For questions regarding these limitations or for applications other than those described herein, contact Maxxon Corporation at (800) 238-8461.

1. For interior use only.
2. Do not store below 45 °F (7 °C).
3. Do not use if ambient and/or concrete surface temperatures are below 45 °F (7 °C) or above 95 °F (35 °C).
4. For on or below grade applications, contact Maxxon Corporation.
5. Do not use as a wear surface.
6. Do not clean the subfloor with oil-based or silicone-based sweeping compounds. These compounds leave a film on the subfloor surface that will interfere with bond development. Instead, use a vacuum with a HEPA filter to clean the subfloor.
7. For use over subfloors containing asbestos, contact Maxxon Corporation.
8. Adhesives, asphalt, coal, and other oil-based contaminants must be mechanically removed (i.e., shotblasting) prior to the application of Maxxon Commercial MVP Two-Part Epoxy. Contact Maxxon Corporation for proper remediation methods.
9. It is the responsibility of the General Contractor to complete moisture testing before underlayment is installed. If testing is necessary, use the methods specified by the flooring manufacturer, typically ASTM F710. If the MVER exceeds 5 lbs (2.3 kg)/1,000 ft^2 (92.9 m^2)/24 hours or an RH greater than 80%, treat the concrete subfloor with Maxxon Commercial MVP Two-Part Epoxy. If the flooring manufacturer specifies more stringent moisture limitations or practices, they must be followed. Contact Maxxon Corporation for further information.

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LIMITATIONS *Continued*

10. Respect active expansion/control joints. Always ensure such joints are honored completely. Existing cracks in the new and old concrete must be repaired with an appropriate crack-repair material, such as S3 Surface Solutions Quickfill (contact Maxxon Corporation for purchasing), in accordance with industry standards and manufacturer's recommendation.
11. Do not apply Maxxon Commercial Two-Part Epoxy over a concrete subfloor that has standing water.
12. Do not install over improperly prepared, weak subfloors. Tensile strength of concrete over must be a minimum of 175 psi (1.2 MPa) as tested per the ASTM C1583 standard.
13. Do not install over concrete subfloor less than 5 days old.
14. Product does not mitigate issues related to hydrostatic pressure.

UNDERLAYMENT CONSIDERATIONS

Once Maxxon Commercial MVP Two-Part Epoxy has cured, poured underlayment or flooring installation can proceed per manufacturer's directions/requirements.

CLEAN-UP

Clean tools with mineral spirits before Maxxon Commercial MVP Two-Part Epoxy cures. Carefully read Maxxon Commercial MVP Two-Part Epoxy SDS for both part A and part B before using mineral spirits.

STORAGE AND DISPOSAL

Store in original sealed packaging in a cool, dry environment and protect from humidity and water. Recommended storage temperature range of 50–100 °F (10–38 °C). Dispose of contents and container in accordance with all applicable regulations. Unopened product shelf life is 24 months.

WARRANTY AND TECH SERVICES

See Maxxon.com for complete warranty information. Technical performance verification and service is available through Maxxon Corporation or Maxxon Regional Representatives throughout North America.

JOB NAME: _____ DATE: _____

APPLICATOR: _____

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★MADE IN USA★

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