

VERITEK MP | MOISTURE TOLERANT BASE PRIMER

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Veritek MP is a high-solids, low VOC two component pre-pigmented epoxy basecoat primer designed for full-broadcast flake and quartz decorative floor coating applications over moisture-laden concrete with a wide coverage rate tolerance.

TYPICAL USES/APPLICATIONS

- Basecoat primer for full broadcast floors
- Primer for pigmented topcoat

PRODUCT ADVANTAGES

- High solids
- Low VOC
- Wide coverage rate tolerance
- Simple mix ratio
- Enhanced adhesion to moisture-laden concrete
- Pre-pigmented for excellent hiding
- Tinted topcoat compatible

PACKAGING

20-Gallon kit

Part A - 5-Gallon Pail (x3)

Part B - 5-Gallon Pail

COLORS

Pre-pigmented Grey or Tan

STORAGE

- Product should be stored indoors between 60°F to 85°F away from direct sunlight and moisture.
- Make sure containers are completely sealed to prevent moisture contamination and ensure best performance.
- Shelf life is 12 months.

RECOMMENDED APPLICATION TEMPERATURE

60° - 90° F

* Product will not properly cure if floor temp is below 60 degrees Fahrenheit.

COVERAGE

For Full broadcast Flake: 10 mils 160 sq.ft./gallon

For Full quartz broadcast: 10 mils 160 sq.ft./gallon

Primer for pigmented topcoat: 8-12 mil 130-200 sq.ft./gallon

TEST DATA

NONVOLATILE CONTENT (ASTM D2369 METHOD E):

>95%

VOC (FULL KIT):

<65 g/L

WEIGHT PER GALLON (ASTM D1475):

Part A: 11.47 LBS/GAL

Part B: 8.16 LBS/GAL

VISCOSITY (ASTM D2196):

Part A: 4400 cps

Part B: 85 cps

GEL TIME:

44 MINUTES

TACK FREE TIME (ASTM D5895):

6.75 HOURS

12 MILS

KÖNIG HARDNESS (ASTM D4366):

1 day: 57 sec.

30 day: 130 sec.

SHORE D HARDNESS (ASTM D2240):

1 day: 70

10 day: 82

ADHESION (ASTM D4541):

>500 PSI (concrete failed)

COMPRESSIVE STRENGTH (ASTM D695):

Strength: 20500 PSI

FLAMMABILITY (ASTM D635):

11-mils

170 mm/min.

TENSILE STRENGTH/ELONGATION (ASTM D638):

6.5-mils

Tensile Strength 3296 PSI, Elongation 12.4%

15.0-mils

Tensile Strength 2922 PSI, Elongation 47.4%

WATER VAPOR TRANSMISSION (ASTM D1653):

6.5-mils

Permeance 0.41 US Perms

15.0-mils

Permeance 0.21 US Perms

ALL TEST DATA COLLECTION AT 70°F UNLESS NOTED OTHERWISE.

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SURFACE PREPARATION

Installation surface must be sound and in good condition. Prepare concrete surface by diamond grinding, using 14 grit diamonds, to remove all previous coatings and to achieve CSP of 3-4. Surface must be free of contamination such as oils, silicones, or other fluid substances. Contaminants could lead to surface defects such as craters and crawling in the coating.

Ensure that the floor temperature is more than 5 degrees over the local dew point to avoid water condensation.

To use Veritek MP, concrete must be visibly dry and dry to the touch. There must not be any dampness or standing water.

Note: Concrete with suspect moisture issues or high moisture requires priming with NF 450 to ensure proper adhesion. Consult Penntek Technical Support for further information.

Veritek MP is not to be used as a moisture vapor barrier.

PRE-MIX REQUIREMENTS

Part A: Slowly premix part A with a drill and paddle mixer for 3-minutes to ensure uniformity, minimizing foam injection.

Part B: Not required.

MIX RATIO:

3:1 Mix ratio by volume (A:B)

MIX INSTRUCTIONS:

Carefully measure 3 parts A and 1 part B by volume and blend together for 2 minutes with a drill and paddle mixer. Proceed to application immediately after mixing.

Warning: Mix gets hot when left in volume. Only mix what is needed and pour all of the mixed material onto the floor.

APPLICATION (Full Broadcast Systems):

1. Using the appropriate coverage rate, mix only the amount of material that can be installed within 20 minutes.
2. To extend the working time, pour all mixed material onto the floor in ribbon-like pattern.
3. Spread material evenly with 8-12 mil notched squeegee, then use roller to spread evenly moving in M and W pattern and use chip brush to apply around edges of floor. 3/8" nap shed resistant 18" roller and 3" chip brushes are recommended.
4. Broadcast floor with media within 20 minutes of the mix (temperature dependent). Work time is dramatically reduced at higher temperatures.
5. For detailed application instructions refer to Penntek Training Manual or contact the technical support line.

NOTE

If using Veritek MP as a primer for a pigmented topcoat, sanding of Veritek MP is required. It is recommended to abrade Veritek MP to complete uniform dullness with two-stage sanding, first using 60-80 grit and then 120-150 grit sandpaper.

PRODUCT AND APPLICATION SUPPORT

Contact the Penntek technical support line at (952) 491-0616 (call/text) for further information.