



## IMPERIAL MVB

### 100% SOLIDS MOISTURE VAPOR BARRIER EPOXY PRIMER SYSTEM TECHNICAL DATA & APPLICATION INSTRUCTION

#### PRODUCT DESCRIPTION

Kingdom Products' **Imperial MVB** is a high performance epoxy primer system designed to reduce water vapor transmission. When applied to properly prepared concrete, **Imperial MVB** has shown to have improved adhesion to concrete surfaces where moisture is an issue and other high performance coatings have failed. **Imperial MVB** can be used exterior as a primer under UV stable products like Kingdom Products' *Imperial Poly Clear*.

#### BENEFITS/FEATURES

- Superior adhesion
- Excellent base for epoxies & urethanes
- resists hydrostatic pressure up to 10 psi
- VOC Compliant
- Performs well where other coatings fail

#### RECOMMENDED APPLICATIONS

Kingdom Products' **Imperial MVB** is designed for a variety of concrete flooring applications. It is an excellent primer for auto service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, exterior tanks & other areas affected by high moisture vapor transmission. Not recommended as a wear surface.

#### TECHNICAL INFORMATION

Drying Time.....	10-12 hours	Wet Appearance.....	Clear/Slight Haze
Re-Coat Time.....	12 hours	Dry Appearance.....	Clear
Foot Traffic.....	12 - 24 hours	VOC Content.....	<5 g/l
Wheel Traffic.....	24 - 48 hours	Blush Resistance.....	Good
Application Temp.....	50°F - 80°F	Solvent Resistance.....	Good
		Concrete Adhesion.....	Excellent

*\*\*Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.*

#### COVERAGE RATES

**First Coat**      200 - 250 ft<sup>2</sup> per gallon\*

\*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

#### SPECIFICATIONS/COMPLIANCES

Kingdom Products' **Imperial MVB** meets OTC, CARB & LADCO VOC restrictions. Perm rating 0.065 perms @ 30 mils thickness. Resists hydrostatic pressure up to 10 psi .

#### PRODUCT STORAGE

Store product in an area so as to bring the material to room temperature within the recommended application temperature range before applying. Long term storage should be between 60°F and 90°F.

#### PACKAGING

Kingdom Products' **Imperial MVB** is packaged in 1.5 gallon, 4.5 Gallon and 15 gallon kits

#### SHELF LIFE

Kingdom Products' **Imperial MVB** has a shelf life up to one year (12 months) in it's original, sealed, unopened container.

**SURFACE PREPARATION:** A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP - 3 to a CSP - 5 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4 x 4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. Imperial MVB has a cure time of 12 hours before it can recoated. If multiple coats of **Imperial MVB** are required, apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats. Fill cracks and spalls with *Kingdom Products' 2K Crack Repair*. (See *Kingdom Products' 2K Crack Repair* technical data prior to use.)

Substrate and air temperature must be no less than 40°F and must not exceed 80°F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing.

**Note:** In direct sunlight, substrate temperature can exceed 150° F which can cause extreme bubbling issues.

**PRODUCT MIXING:** Mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Mix only full, pre-packaged kits. DO NOT separate into smaller kits. Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer for 2 full minutes to ensure the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

**PRODUCT APPLICATION:** Apply the mixed material by brush or roller with a 1/2" - 3/4" nap shedless roller cover within the usable pot life time frame, at 200 - 250 sq ft per gallon. A second applicator on spiked shoes should be back rolling the wet material to ensure uniform distribution. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying **Imperial MVB** outside of the suggested parameters may result in job failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings & substrates depending on porosity, density, texture etc.

## CLEAN-UP & PRODUCT REMOVAL

Use Xylene to clean. Dispose of containers in accordance with local, state and federal regulations. Dried, cured product may be removed with a commercial epoxy stripper or by using a diamond grinding method, sand blasting method or similar mechanical action.

## PRECAUTIONS AND LIMITATIONS

- This product will freeze during storage. Store at temperatures above 40°F.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- This product is NOT intended for use over vegetable oil, animal fat or synthetic oil contaminated concrete.
- This product can withstand exposure to many common solvents and chemicals.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause sealer to delaminate in a short time frame.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Please be aware, when cured this product may be slippery when wet. An anti-slip additive, such as *Kingdom Products' Grip-Fine*, can be added to reduce slip hazards.

## SPECIAL NOTES

**FOR PROFESSIONAL USE ONLY!** Please consult Safety Data Sheet (SDS), Technical Data Sheet and Warranty Information prior to use.