

**Product Data Sheet For:**

# PLEXIGLAZE MVB 2000

## Waterproofing System

*A System for the Reduction of Moisture Vapor Emission*

**Description:**

PlexiGlaze MVB 2000 is a one-coat system which consists of a unique combination of epoxy resins and other chemical substances. It is specifically formulated to overcome the inferior adhesion properties of most resin based systems when curing in an environment of constant wetness, extreme alkalinity (pH 13-14) and water vapor drive. Because of its extreme density it is capable of reducing water vapor and moisture to levels acceptable for most coatings, adhesives and floor covering systems. PlexiGlaze MVB 2000 is in full compliance with current VOC regulations.

The PlexiGlaze MVB 2000 Moisture Mitigation System has excellent chemical and abrasion resistance and is compatible with most 100% solid epoxy and/or polyurethane based materials. Allow final coating of the PlexiGlaze MVB System to cure for a minimum period of 8-12 hours before application of any material. This cure time includes proper ventilation of entire work area during and after application.

**Typical Uses:**

The primary recommended use for PlexiGlaze MVB 2000 is to solve the problems of alkalinity and moisture/water vapor emission through mineral-based substrates such as concrete floors, floor underlayments (not containing gypsum), screeds etc., by reducing these vapors to levels that do not interfere with the adhesion of floor coverings. It provides an excellent base coat for most coatings and adhesives that cures fast and can be used indoors due to its low odor and non-flammability. The PlexiGlaze MVB 2000 system may be applied to concrete and other cement-based toppings that have been allowed to cure for a minimum period of 7 days. It is not pH sensitive in an alkaline environment. These unique properties allow the system to provide a solution as a base coat to pH/moisture/water vapor-sensitive coatings such as polyurethane with regard to their long-term adhesion. Substrate should have a minimum compressive strength of 2500 psi.

**Surface Preparation:**

The substrates to receive the PlexiGlaze MVB 2000 system must be sound, clean, absorptive, and meet acceptable industry standards as defined in ACI Committee 201 report "Guide to Durable Concrete." Any kind of surface contamination such as adhesives, coatings, curing compounds, efflorescence, dust, grease, oils, etc., must be removed completely by sand or shot blasting to ICRI CSP 3 or CSP 4 finish. Only a surface that remains sound, clean, absorptive and free of any type of contamination is fit to receive the PlexiGlaze MVB 2000 primer systems.

**ASTM E96-95 Test Results:**

CONTROL	Wet Method	Wet Method
Water Vapor, Transmission, grains/hr.ft <sup>2</sup>	0.20	3.35
Water Vapor Transmission, grains/m <sup>2</sup>	0.14	2.34
Water Vapor Transmission, lbs./24hr. 1000 ft.	0.69	11.48
PERMEANCE; PERMS	0.53	8.81
Permeance, g/Pa.s.m <sup>2</sup>	3.03E08	5.04E07

**Application Instructions:**

Before application of the PlexiGlaze MVB 2000 system, make sure all conditions as outlined for uses, surface preparation and mixing have been strictly adhered to.

The PlexiGlaze MVB 2000 system may be applied using a squeegee and/or 3/8" nap roller. The coverage rates for the PlexiGlaze MVB 2000 system depend on the surface texture and porosity of the substrate as well as the degree of moisture level. The PlexiGlaze MVB 2000 system is self-leveling and will flow into low areas where it can build up. Therefore it is recommended to start with a trial area of application to determine final coverage. On average, a coverage rate of 90 to 130 ft<sup>2</sup> /gal. Should be expected, but may vary from project to project.

**Approximate Suggested Coverage:**

Vapor Testing per ASTM F1869 (CaCl)

Up to 10lbs/1000 ft. /24h. =100-125 square feet

Up to 15lbs. /1000 ft./24h.=80-90 square feet

Up to 25lbs.1000ft./24h.=40-60 square feet

When applied onto absorptive concrete, the PlexiGlaze MVB 2000 system will penetrate deep into the voids of the substrate surface. This may result in the appearance of “outgassing” by displacing the air contained in the voids with resin. This “outgassing” does NOT affect the vapor performance of the system. This displacement may result in high points which may be removed with a razor scraper or very light disc sanding.

All “outgassing channels” are self-sealed during curing of the system.

**Mixing:**

Mix component A and B at a ratio of 2:1 by volume. This is accomplished by pre-mixing the A component; then pouring the B component into the short-filled A component; mixing all the while. Mix with a slow speed motor (<400 RPM) and “Jiffy-type” mixer for 1 minutes. Pour the fully mixed material onto the substrate immediately after mixing.

**Physical Properties:**

Pot Life	Immediately empty container after mixing
Solid Content	100%
VOC, mixed	< 10 gr. /L
Flash Point	> 200° F
Packaging	4 gallons Part A 2 gallons Part B
Storage	Between 50° F - 90° F
Shelf Life	1 Year in original sealed container
Clean Up	Immediately with Xylene after use
Disposal	Dispose of in accordance with current local, state and federal regulations.
Absorbent	Collect with material.

**Safety Precautions:**

Component A contains epoxy resins. Component B contains amines. Avoid skin and eye contact as well as prolonged exposure to vapors. Use safety goggles and chemical-resistant gloves. Ventilate work area properly.

**First Aid:**

**Eye Contact** – Flush immediately with water and consult physician.

**Skin Contact** – Wash immediately with soap and water.

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Plexi-Chemie Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

**Please be sure the Safety Data Sheet is read and understood before using any Plexi-Chemie product.**