



PolyVers International
 87 Shawnee Avenue
 Kansas City, KS 66105
 (913) 321-9000
 (913) 321-1490 (fax)

Product Data Sheet

AquaLok II **Deep Penetrating** **Moisture Barrier**

USGBC LEED, EQ Credit 4:
 Low – emitting VOC Compliant Materials

Product Description - PolyVers AquaLok II is a single component, modified silicate solution supplied as a ready-to-use moisture barrier for concrete. **AquaLok II** is water soluble and non-toxic. **AquaLok II** reacts with available alkali to form a crystalline structure, densifying concrete at the depth of penetration, reducing vapor and moisture drive, allowing application of coatings and sealants to on-grade substrates. Freeze/thaw characteristics of concrete will be enhanced when **AquaLok II** is used by itself or in combination with polyurea coatings and sealants.

Uses - AquaLok II may be used with all **PolyVers** rapid curing polyurea sealants and spray coatings systems. It is designed for use in both interior and exterior applications as a penetrating moisture and vapor barrier. **AquaLok II** may be used down to 35°F.

Advantages -

- No VOC's
- Non Toxic
- Easy to Apply
- Virtually Eliminates Vapor Transmission
- No Odor

Ideal for Applications In -

- Anywhere vapor pressure or substrate moisture needs to be blocked
- Use on slabs in ground or on grade to assure adhesion of mastics and adhesives for floor coverings

Physical Properties -

VOC Content	ASTM D3960	0%
USDA Approval		Yes
Toxicity		None
Reactivity after cure		No
Artificial Weathering	ASTM C23-69	None
Efflorescence	ASTM C67 Sec.10	None
Water Absorption	ASTM C67 Sec.7	None
Suction	ASTM C67 Sec.9	None
Compressive Strength Gain, Concrete	CSA A23/2-90 & ASTM C873	+10% to 30% @ 28days
Freeze/Thaw	ASTM C666	No Effect
Friction	ASTM D2047, non-treated dry	.765, wet .77
	ASTM D2047, treated dry	.77, wet .79
Salt Sealing	CSA A23.2-16C & ASTM C672, 100 cycles C39,C42,C912	air-entrained #1 Non air-entrained #2
Chloride Ion Content	CSA A23.2-4B & ASTM C114, AASHTO T260	None
Chloride Ion to Steel	AASHTO T259	None
Hydrostatic Seal		Yes
Matrix Penetration	Dye Test	100 - 300 mm
Potable Water Safety		Yes

Packaging -

- 55 Gallon Drums - Drum containers filled by weight, volume is closely approximated.
- 5 Gallon Pails
- 1 Gallon Pails

Mixing - AquaLok II is a single component product. Prior to use shake container or stir for one to two minutes.

Safety -

- Read Material Safety Data Sheet before using.
- Keep out of reach of children
- Protect from freezing
- Wear safety glasses and rubber gloves
- Do not apply to soft metals
- Do not apply to glass

Application Recommendations - AquaLok II should be applied by low pressure sprayer, airless sprayer or roller. Apply at 100 to 200 square feet per gallon. Two coats recommended. Apply to moist or wet substrates.

Preparation and Installation - Concrete must be clean, structurally sound and free of wax, dirt, coatings and paint, curing compounds, and petrochemicals. Random cracks, damaged control joints, and new construction joints must be properly prepared. Concrete laitance must be removed. Air-blast or vacuum concrete dust prior to installing **AquaLok II**. Hard steel troweled surfaces should be water tested for penetration characteristics. Horizontal and vertical concrete or masonry surfaces must be sand blasted or shot blasted prior to application for maximum penetration.

Shelf Life - One year, in original unopened factory containers, under normal storage conditions of 55°F to 95°F.

Technical Services - Sales and Customer Support (913) 321-9000

Warranty – PolyVers International will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.