CSI DIVISION 033000
CSI DIVISION 072600

UNDER-SLAB VAPOR BARRIER / RETARDER

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VIPER®

VAPORCHECK II

WHAT IS A VAPOR RETARDER?

The definition of a vapor retarder, according to ASTM E 1745, "is a material or construction that impedes the transmission of water vapor under specified conditions." Vapor retarders are designed to retard moisture migration through slab-on-grade applications. Under-Slab Vapor Retarders provide an inexpensive insurance policy to protect floors and other moisture sensitive equipment within the building's interior. By inhibiting moisture and soil gas migration, under-slab vapor retarders greatly reduce condensation, retard mold growth, help provide healthy breathing conditions within a building, prevent flooring failures and aid in controlling structural degradation. The physical characteristics of a vapor retarder consist of high puncture resistance, high tensile strength and low moisture permeability.

PURPOSE OF A VAPOR RETARDER

The infiltration of moisture, water vapor and gas from the earth through concrete slabs is a costly building liability. The use of a vapor barrier / retarder greatly reduces these building defects by retarding and blocking moisture migration through slab-on-grade applications. Moisture migration has been known to cause the following:

- Poor indoor air quality (IAQ) resulting in health issues to occupants within the building
- Mold, mildew and fungus
- Failures to the flooring systems [Adhesive Failure, Distortion, Discoloration, Deterioration, Degradation, Rust Stains, Odors]
- Damage to the slab-on-grade and its components
- Heat loss through increased thermal conductivity caused by moisture in the slab

VIPER® VAPORCHECK® II

VIPER® VAPORCHECK® II is a multi-layer, extruded, HD virgin polyolefin under slab vapor barrier / retarder. The “virgin resin” used when manufacturing VIPER® VAPORCHECK® II prevents material breakdown when exposed to the environment below the slab, thus lasting the lifetime of the building.

The high puncture resistance and tensile strength of VIPER® VAPORCHECK® II greatly reduces punctures and tears when exposed to rigorous job site conditions.

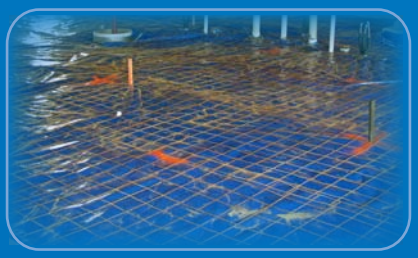
Along with the strength characteristics, VIPER® VAPORCHECK® II has a very low water vapor permeance rating which is key to preventing water / vapor migration. VIPER® VAPORCHECK® II also retards radon gas, methane gas, sulfates and oil by products.

VIPER® VAPORCHECK® II 15-mil exceeds all ASTM E 1745 “Class A” requirements and performs as a “VAPOR BARRIER” rather than a vapor retarder. The 10-mil (vapor retarder) is available in both “Class A” and Class C” configurations. Both of these thicknesses yield the lowest water vapor permeance ratings when compared to their respective competition.

PRODUCTS

Viper® VaporCheck® II

- 15-mil “Class A”
- 10-mil “Class A”
- 10-mil “Class C”



APPLICATIONS

Under-Slab

Crawl Space

Foundation Wall

Radon Mitigation

ROLL SIZES

• 15-mil “A”
14' X 140' (1960 sq.ft.)

• 10-mil “A”
14' X 210' (2940 sq.ft.)

• 10-mil “C”
14' X 210' (2940 sq.ft.)

CLASSIFICATION

Exceeds All
ASTM E 1745
(Class A, B & C)
Requirements