

# TL409 Epoxy Vapor Barrier Data

**SOLIDS BY WEIGHT:**

100% (+/- 1%)

**SOLIDS BY VOLUME:**

100% (+/- 1%)

**VOLATILE ORGANIC CONTENT:**

zero

**COLORS AVAILABLE:**

Clear

**RECOMMENDED FILM THICKNESS:**

17 mils

**COVERAGE PER GALLON:**

94.4 square feet per gallon @ 17 mils

**PACKAGING INFORMATION:**

3 gallon kit (volume approximate)

15 gallon kits (volume approximate)

**MIX RATIO:**

9.25 pounds (1 gallon) part A to 4.15 pounds (0.50 gallons) part B (volumes approx.)

**SHELF LIFE:**

1 year in unopened containers

**ADHESION:**

350 psi @ elcometer (concrete failure, no delamination)

**VISCOSITY:**

Mixed= 500-1000 cps (typical)

**DOT CLASSIFICATIONS:**

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

**HARDNESS:**

Shore D= 75-80

**CURE SCHEDULE:**

pot life (150 gram mass)..... 28-38 minutes @ 70°F

tack free (dry to touch.....)..... 6 – 10 hours @ 70 °F

recoat or topcoat.....12-16 hours @ 70°F

full cure (heavy traffic).... 3-7 days @ 70°F

**APPLICATION TEMPERATURE:**

60-90 degrees F with relative humidity below 90%.

**PRIMER:**

None Recommended

**TOPCOAT:**

Various topcoat products and systems can be used.

**LIMITATIONS:**

\*Color stability may be affected by environmental conditions such as high humidity, chemical exposure or certain types of lighting.

\*Product color may vary from batch to batch.

\*This product is not UV color stable.

\*Substrate temperatures must be 5°F above dew point.

\*For best results, apply with a high quality roller.

\*All new concrete must be cured for at least 10 days prior to application with a minimum compressive strength of 3,500 psi and a minimum tensile strength of 200 psi.

\* Testing must be performed to confirm a moisture vapor emission rate below 20 lb/24hr/1000 ft<sup>2</sup> per ASTM F1869 or between 75% and 95% for ASTM F2170.

\*Surface must be durable, clean, free of laitance with a surface profile minimum of CSP3 as per the International Concrete Repair Institute.

\*Do not expose this product to water until fully cured.

\*Product is not suitable for preventing hydrostatic or osmotic water conditions.

\*Manufacturer is not responsible for entrapped moisture and/or water underneath applied coatings with a low rate of water vapor transmission which can deteriorate concrete resulting in a cohesive failure within the concrete surface.

Product will not prevent failures from insufficient surface preparation, improper applications, alkaline silica reaction (ASR), ionic compounds or soluble salts in the concrete..

\*Manufacturer is not responsible for failures caused by cracks and pin holes or damage caused by use. Cracks and joints are not covered by any warranty.

\*Product is not warranted for any products not recommended by or manufactured by the vapor barrier manufacturer.

\*Any un-reacted alkaline silicate compounds within the concrete can result in osmotic action/water vapor transmission that will channel these water soluble compounds to the surface where they can effectively break the bond of the applied system as well as preventing penetration of the coating into the substrate.

\*Any claim of warrant breach, must be provided to the manufacturer in writing within thirty days of the discovery of a breach of warranty.

In the event of any breach of warranty, customers sole and exclusive remedy shall be replacement or repair of materials actually damaged (i.e., affected areas only)

No warrant shall cover any application that does not follow the surface preparation, mixing, application and covering recommendations and procedures.

\*slabs must be at least 4" thick with a functioning vapor barrier.

\*Manufacturer does not warrant penetration and bond where cores are not tested unless and until project owner submits cores and lab establishes that no impediment to bond or penetration is or was present.

\*Physical properties are typical values and not specifications.