

## MANUFACTURER

Floor Seal Technology, Inc.  
 1566 South 7<sup>th</sup> Street  
 San Jose, CA 95112  
 (800) 572-2344  
[www.floorseal.com](http://www.floorseal.com)

## DESCRIPTION

**VaporSeal 309®** is a complete process for achieving exceptional concrete, super flat floors, and moisture compliance for flooring systems.

## ADVANTAGES

- Minimal or no cracking
- Near zero floor preparing costs
- Meets high floor flatness tolerances, ASTM E1155 (FF35)
- Eliminates common surface imperfections
- Produces concrete compliant with flooring manufacturer floor moisture tolerances – ASTM F1869, ASTM F2170, ASTM F710 alkalinity-pH
- Surfaces meet ASTM F3191 absorption requirement

## STEP 1 - CONCRETE MIX DESIGN

Concrete mix designs are a critical component in achieving floor flatness, and moisture compliance for floor coverings.

To eliminate common imperfections found in freshly placed concrete, Floor Seal Technology assists design teams in specifying and acceptance of a concrete mix design to achieve high floor flatness tolerances and maximum effectiveness of the **VaporSeal 309®** specialty curing + moisture control treatment application.

## STEP 2 - ON-SITE OVERSITE

Factory employed personnel are on-site during the concrete placement to monitor, advise and identify defects during the finishing process using 3D laser imaging, following ACI 117.

Expect floor flatness of FF 35 (min. FF22) and FL20 (min. FL 18) when tested to ASTM E1155 at 72 hours after placement of concrete.



VaporSeal 309 curing + moisture control treatment

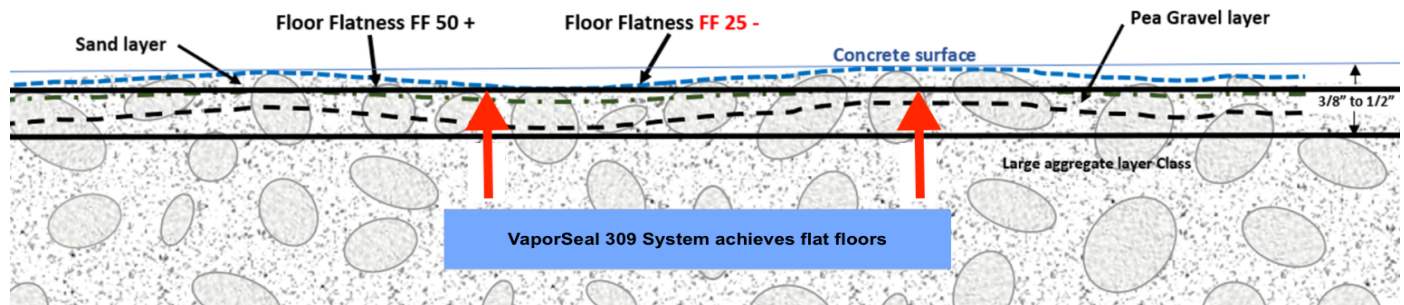
## STEP 3 - CURING

Most concrete is improperly cured, as required by ACI 308 Guide to Curing Concrete. Curing methods must be applied based on concrete temperatures, ambient temperatures, relative humidity, and wind during concrete placement.

Manufacturer employed personnel monitor site conditions, using computerized analytic weather station to identify ideal conditions for **VaporSeal 309®** specialty curing + moisture control treatment application.

### VaporSeal 309® Properties:

- Membrane Type: Resin, film forming
- Water retention: <math><0.36 \text{ kg/m}^2</math>, ASTM C156
- Curing: Exceeds <math>0.55 \text{ kg/m}^2</math>, ASTM C309
- Curing/Membrane: Meets <math>0.40 \text{ kg/m}^2</math>, ASTM C1315
- VOC Content: 54 g/L
- Solids Content: 35-percent
- Product Type: Impregnating, dissipative



## STEP 4 – CONCRETE TESTING

Upon completion of concrete placement, manufacturer employed personnel perform the following testing during the project until moisture compliance is documented.

- ASTM F1869 moisture vapor emission
- ASTM F2170 relative humidity
- ASTM F710 alkalinity-pH testing
- ASTM F3191 absorption



## SUSTAINABILITY

**berkeley analytical**

CDPH/EHLB/Standard Method V1.2-2017



Health Product Declaration

## WARRANTY

Floors are guaranteed to meet flooring manufacturer tolerances per ASTM F1869, and ASTM F2170 at time of flooring installation. Surfaces non-compliant with flooring manufacturers tolerances will be treated with a two-component moisture control barrier to suppress results within compliance at no additional cost to Owner.

Installations are manufactured guaranteed for 15-years. Includes repair and replacement of finished flooring system damaged by substrate moisture at no cost to Owner.

## STEP 6 – GUARANTEED COMPLIANCE

Moisture compliance is guaranteed. Flooring areas in excess of flooring manufacturer tolerances as reported by concrete testing, are sealed with Floor Seal Technology's two-component MES epoxy-based moisture treatment at no additional cost to Owner.

