

PRODUCT SELECTION CHART

Use the following information to decide which SG Product fits the job:

	SG2	SG3
Properties	Heavy Duty Broadcast	Heavy Duty Non-Broadcast
Material	2-Component Epoxy 97% Solids	2-Component Epoxy 100% Solids
Color	White	Clear
VOC content, mixed	55g/L	0g/L
Suitable for MVER up to	25 lbs	25 lbs
Flooring system installed next day	Yes	Yes
Applied to damp concrete	Yes	Yes
Requires full broadcast of sand	Yes	No
Sealing oil contaminated slabs	Yes	No
High alkalinity barrier up to pH 14	Yes	Yes
Applied to 5 day old concrete	Yes	Yes
Suitable for MMA's Vinylesters/Polyesters	Yes	No



VAPORTIGHT COAT®-SG actually penetrates into the slab, creating a barrier below the surface and away from the bond line where subsequent coatings could potentially be damaged by rising moisture, salts or other substances in the slab...



AQUAFIN Inc. plant in
Elkton, MD, USA

Production and quality control:

VAPORTIGHT COAT®-SG is produced in Detmold, Germany.

AQUAFIN, Inc. is a member of AQUAFIN International GmbH.

Other facilities are located in Egypt, Germany (2), India, Kazakhstan, Mauritius, Pakistan, Poland, Qatar (2009), Slovakia, Switzerland & Turkey.

All AQUAFIN products go through effective quality control in the QC-laboratories at the plant site.



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Building Product Systems

Waterproofing &
Concrete Restoration

Decorative Coatings

**Moisture Vapor
Remediation & Flooring**

Various & Accessory Products

Typically Applied Moisture Vapor Reduction Systems for new and existing concrete slabs



Safe from the ground up...

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Two unique products...

The **VAPORTIGHT COAT®-SG** products reduce water vapor emission levels of up to 25 lbs/1000 ft²·24 h (5 g/m²·h) to well below accepted levels for subsequent application of flooring systems such as epoxies, vinyl tiles, sheet vinyl, carpets, wood flooring, etc.

VAPORTIGHT COAT®-SG2 - Oil & Vapor Barrier

is a 2-component, moisture tolerant, extremely high-density epoxy based product, which prevents the passage of water vapor and moisture through slabs on or below grade, thus eliminating delamination of adhesives, floor coverings and coatings. It is a full broadcast system that also prevents capillary infiltration of oil or other chemicals from the ground and can be used to treat oil-contaminated slabs.

VAPORTIGHT COAT®-SG3 - Vapor Barrier

is a 2-component, 100% solids, moisture tolerant, epoxy product, which prevents the passage of water vapor and moisture through slabs on or below grade, thus eliminating delamination of adhesives, floor coverings and coatings. It is a non-broadcast system that can be applied in one coat for most applications. It is also available in a fast-setting formula, **VAPORTIGHT COAT®-SG3/FC**, which allows the application of most floor coverings within 5 hours.



Water Vapor Emission Test: Use "Anhydrous Calcium Chloride" testing as per ASTM F 1869-98 to determine the existing water vapor emission rate prior to application **VAPORTIGHT COAT®-SG** products.

Consult product data sheet for full technical information!

VAPORTIGHT COAT®-SG

VAPORTIGHT COAT®-SG combines an unusually wide variety of advantages in a unique product line:

- Vapor barrier
- Moisture tolerant
- High chemical resistance
- Excellent adhesion to damp substrates
- Good adhesion after freeze/thaw cycling
- Easy to apply – one coat application
- Functions as negative side waterproofing
- Provides good bonding for additional top coatings such as adhesives, epoxies and self levelers



Typical areas of application:

Concrete slabs on or below grade such as

- Industrial/Retail Facilities
- Office Buildings
- Hospitals and Schools
- Field Houses
- Running Tracks (Indoor/Outdoor)
- Residential Slabs
- Hangars
- Warehouses



Typical applications:

- Concrete slabs with missing or damaged vapor barriers
- Oil contaminated concrete substrates
- 5 day old concrete slabs
- New concrete slabs with excessive moisture content to receive a flooring or coating



VAPORTIGHT COAT®-SG

Surface Preparation:

Use steel shot blasting, scarifying or other suitable means to obtain a uniform, absorptive surface, free of existing coatings or any bond inhibitors (ICRI CSP 3-5 profile).

Rinse all surfaces to be treated with clean water, leaving no standing water.



Failed epoxy flooring due to excessive water vapor transmission.



Surface preparation.

Mixing and Application:

Thoroughly mix resin and hardener (component A & B) as per data sheet instructions.

Pour and spread product in one coat (application rates can be found on datasheet) by roller or squeegee to the substrate, and carefully scrub it into the pores with a long handled brush.

Follow with a roller to achieve a uniform coverage. Protect treated area from strong sunlight and wind. Indoors, prevent noticeable drafts.



Cleaning/rinsing surface from debris.



Mixing VAPORTIGHT COAT®-SG in supplied container.



SG2 & SG3: Application step 1, spreading material evenly over surface with squeegee or roller.



SG2 & SG3: Application step 2, scrubbing material into the substrate pores with a brush. Application step 3, back-roll with a shortnap, non-shed roller to achieve a uniform finish.

VAPORTIGHT COAT®-SG2 only:

Broadcast #20 mesh (0.5-1.0 mm) sand into fresh application.

Installation time: 1 day

Refer to Technical Data sheet for full application instructions!



VAPORTIGHT COAT®-SG2 only: Application step 4, sanding of surface for bonding of subsequent epoxy top-coating.



Finished surface, ready to receive top-coating.