



ANCHOR BOND® 3800 VINYLESTER

PRODUCT DESCRIPTION:

Anchor Bond® 3800 Vinylester is a two component resin system designed to incorporate specialty aggregates that are used in troweled or broadcast applications where splash and spills of high concentration of acids and chemicals occur.

RECOMMENDED FOR:

- ▶ Traffic areas
- ▶ Trenches
- ▶ Curbs
- ▶ Tanks / spill areas for Food Processing, Paper & Refinery industries

SUBSTRATE:

This product is not recommended for Areas where the styrene odor generated during application could contaminate products.

SOLIDS BY WEIGHT:

67% (+ / - 1%)

COLORS AVAILABLE:

Clear Amber, other colors available upon request.

FINISH CHARACTERISTICS:

Gloss

MIX RATIO:

As Broadcast Laminate

1 gal. Part A / 1 or 2 oz. Part B / 30# Aggregate (4 layers)

Final Coat

1 gal. Part A / 1 or 2 oz. Part B / 5 oz. Releasing Agent

As Troweled Slurry

1 gal. Part A / 2 oz. Part B / 10-15# Part C (Silica Sand or Quartz)

Final Coat

Same as Broadcast Laminate

Note: Troweled Slurry – Amount of broadcast sand will vary depending on type used.

RECOMMENDED THICKNESS / YIELD:

40 sq. ft @ 1/8" as troweled slurry per gallon

10-12 sq. ft. @ 1/4" as broadcast laminate per gallon

SHELF LIFE:

One (1) year in original, unopened containers

CHEMICAL RESISTANCE DATA

MATERIAL	% CONCENTRATION	TEMPERATURE
Acetic	25%	210° F
Acetic	75%	180° F
Chromic	20%	150° F
Chromic	30%	NR
Citric	All	210° F
Nitric	20%	150° F
Sulfuric	70%	210° F
Tannic	All	210° F
Butyl	All	100° F
Sodium Sulfide	All	210° F
Sodium Hypochlorite	5 ¼%	150° F
Sodium Hypochlorite	15%	180° F
Chlorine, Wet		210° F

Note: Extensive chemical resistance information available through Industrial Protective Coatings, Inc.

PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	ANCHOR BOND® 3800 VINYLESTER
FLEXURAL STRENGTH	ASTM D-790	19,000 psi
TENSILE STRENGTH	ASTM D-638	12,000 psi
BARCOL HARDNESS	ASTM D-2583	35

PRIMER:

Anchor Bond® Polyseal

TOPCOAT:

Anchor Bond® Vinylester Resin with surfacing agent

CURE SCHEDULE:

Gel time 16-19 minutes
 Gel to Peak time 10-15 minutes
 Peak Exotherm 330° - 360° F / 165° - 182° C

STORAGE CONDITIONS:

Continuous storage should be between 60° and 90° F. Low temperatures or great temperature fluctuations may cause product crystallization.

PACKAGING INFORMATION:

5 Gal. Unit 50 sq. ft.
 55 Gal. Unit 550 sq. ft.
 Note: Part C, aggregate (Purchased locally or separately)

ANCHOR BOND® 3800 VINYLESTER MIXING AND APPLICATION INSTRUCTIONS

1) PRODUCT STORAGE:

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60° and 90° F. Low temperatures or great temperature fluctuations may cause product crystallization.

2) SURFACE PREPARATION:

The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

3) PRODUCT MIXING:

This product has a mix ratio of 1 gal. part A to 1 to 2 ounces part B. Standard packages contain pre-measured mixing tools and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate.

4) PRIMING:

Use Anchor Bond® Polyseal

5) PRODUCT APPLICATION:

General Information

The mixed material can be applied by trowel, brush, roller or squeegee. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off or prior to broadcasting aggregate to remove the air entrapped in the coating.

Application

- Pour the resin mixture onto the floor in a ribbon, close to the starting edge or wall.
- With the aid of a squeegee (long-handled 24-inch for open areas or small hand squeegee for small areas) or roller, spread the resin mixture back and forth across the floor working it away from the starting edge or wall.
- Coverage should be approximately 45 to 55 square feet per gallon.
- After each batch is applied, immediately broadcast aggregate heavily into resin layer at the rate of approximately 1 pound per square foot, leaving no trace of wet or shiny spots.
- Leave a wet edge for the next batch to connect to. (Note: Do not allow resin mixture to harden before broadcasting aggregate. Resin may begin to harden in 5 minutes.)
- Move to an adjacent area and repeat this process (connecting to the wet edge of the previous batch) until entire area to be overlaid has received first aggregate coat.
- When floor can be lightly swept without disturbing embedded aggregate (about 1 hour), sweep up excess aggregate, keeping it clean for reuse.
- Take care to ensure that no contamination of the surface occurs between the aggregate coats from spillages, moisture or traffic.

Additional Aggregate Coats

- Repeat as with first aggregate coat (using a squeegee only to spread the resin mixture).
- Resin mixture coverage should be approximately 40 to 55 square feet per gallon.
- Again, sweep up excess aggregate for reuse.
- Repeat as required to obtain a minimum of 1/4" inch thickness (generally 3 or 4 aggregate coats are required).

Veilcoat

- The application of the veilcoat determines the degree of non-skid for the finished floor. Veilcoat thickness can be adjusted to provide a pronounced non-skid to a smooth finish.

Determine degree of non-skid – test in out-of-way area

- Mix a small amount of resin and catalyst, per mixing instructions.
- Apply the mixture to the floor with a squeegee and/or roller selecting a finish for the area.
- A roller applied veilcoat will provide a very pronounced non-skid, while a squeegee applied veilcoat will result in a moderate non-skid. The degree of non-skid may be further lessened by adding coat(s) of resin mixture (see mixing instructions) without glazing compound.
- While determining the degree of non-skid for the finished floor, keep in mind that too smooth can be slippery and too rough can be difficult to clean. (A coverage of 55 to 60 square feet per gallon will provide an adequate non-skid yet cleanable surface.)

Glazing Compound

- Adding glazing compound to the resin mixture eliminates the tacky surface that remains after each resin/seedcoat layer.
- Glazing compound must not be added until positively the last coat, as rebonding additional coats requires special methods of treating the surface.
- Mix 2 ounces catalyst per gallon resin, as per mixing instructions, and add 4 ounces per gallon of glazing compound.
- Apply veilcoat to the surface at the required rate to attain the non-skid features selected when completing the the non-skid test detailed above.

6) RECOAT OR TOPCOATING:

When topcoating, use this product with the proper amount of releasing agent. Always remember that colder temperatures will require more cure time for the product before topcoating can commence.

7) CLEANUP:

Use Xylol, MEK or Acetone

8) FLOOR CLEANING:

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

9) RESTRICTIONS:

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our product is manufactured to the specifications as stated here or in other publications. All other information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Uncured epoxy resins, polymers and their curing agents may be ALKALINE, TOXIC OR BOTH, DEPENDING ON THE PARTICULAR SYSTEM. THEY MAY CAUSE ALLERGIC REACTIONS OR HYPERSENSITIVITY REACTIONS. BEFORE USING ANY MATERIAL, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.