

## SYSTEM SPECIFICATIONS SIMPLY TRAFFIC COATING

### WATER CATALYZED TRAFFIC MEMBRANE DECK SYSTEM

#### PART 1 - DESCRIPTION

##### 1.1 SUMMARY

- A. Simply Traffic Coating is a seamless, crack-free and joint-free deck coating system for concrete and plywood substrates.
- B. The Pedestrian system utilizes a primer, one coat of catalyzed, urethane basecoat and two coats of an aliphatic urethane topcoat.
- C. The Vehicle system utilizes a primer, one coat of catalyzed, urethane basecoat, one coat of an aromatic urethane intermediate coat and one coat of an aliphatic urethane topcoat.
- D. Simply Traffic Coating can be applied to protect surfaces against spalling, freeze-thaw damage, and chemicals commonly encountered on these surfaces. It is an elastomeric system designed to expand and contract with normal structural movements. It will not soften in heat nor become brittle in cold temperatures. Simply Traffic Coating is a proven waterproofing system primarily used on plywood, concrete and metal surfaces. Installed and maintained properly, Simply Traffic Coating Systems will ensure years of service.
- E. Be sure to use the right product grade that complies with VOC regulation as per federal, state, statutory bodies, county and city regulations/codes at the place of product installation.

##### 1.2 FEATURES

- Seamless
- Recoatable
- Non-gassing
- Elastomeric
- Good Weatherability
- Fast Curing
- Meets California VOC and SCAQMD Requirements

##### 1.3 TYPICAL USES

- Balcony Decks
- Vehicle Traffic Decks
- Roof Decks
- Mechanical Rooms
- Garbage Rooms
- Generator Rooms
- Suitable for roof decks over occupied space when installed with fabric reinforcing

##### 1.4 PRODUCTS & PACKAGING

###### Simply Primer EP1

- 3-gallon kit: One 3.5-gallon pail containing net 2 gallons (7.57 liters) of Side A blue liquid and 1 gallon (3.78 liters) can of Side-B yellow liquid.
- 15-gallon kit: Two 5-gallon (18.9 liters) pails of Side-A blue liquid, each containing 5 gallons and one 5-gallon pail of Side-B yellow liquid, containing 5 gallons (18.9 liters).

###### Simply Primer EP2

- 2-quart kit: One quart (0.946 liters) can of Side-A black liquid and one quart can of Side-B white liquid.
- 2-gallon kit: One gallon (3.78 liter) can of Side-A black liquid and one gallon can of Side-B white liquid.
- 10-gallon kit: One 5-gallon (18.9 liter) pail of Side-A black liquid and one 5-gallon pail of Side-B white liquid.

## Simply Primer EP3

- 2-gallon kit: One gallon (3.78 liter) can of Side-A blue liquid and one gallon (3.78 liters) can of Side-B yellow liquid.
- 10-gallon kit: One 5-gallon (18.9 liter) pail of Side-A blue liquid and one 5-gallon (18.9 liters) pail of Side-B yellow liquid.

## Simply Basecoat

- 1 gallon (3.78 liter) can with a partial vial of catalyst
- 5 gallon (18.9 liter) pail with a full vial of catalyst

## Simply Intermediate Coat

- 1 gallon (3.78 liter) can with vial of catalyst
- 5-gallon (18.9 liter) pail with ½ pint (0.24 liter) can of catalyst
- 55-gallon drum, net fill 50 gallons (189 liters) with 2 ½ quart (2.36 liters) can of catalyst

## Simply Topcoat

- 4.4-gallon kit: One 5-gallon (net 4 gallons, 15.1 liters) pail of Side-A and ½ gallon (net 0.4 gallon, 1.5 liters) jar of Side-B.

## 1.5 PRODUCT INSTRUCTION

- A. For complete information associated with the application of Simply Traffic Coating, refer to the General & Safety Guidelines section of the Simply Waterproofing catalog which describes the surface preparation, job conditions, finishing details and other necessary information.
- B. All products/materials to be used on this system should be purchased from Simply Waterproofing or its distributors or approved by Simply Waterproofing. For details on individual product, please refer to Product Data Sheet.
- C. For project specific recommendations, please contact Simply Waterproofing.
- D. Refer to Products Data Sheets for products referred to in the System Specifications.

## PART 2 - APPLICATION

### 2.1 SURFACE PREPARATION

- A. Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shot-blasting or the use of Simply Profile Etch. Peel adhesion tests are recommended.
- B. Install a 100-200 sq. ft. (9.3-19.6 sq. m) mockup of the system to be installed and approved for aesthetics, color, texture, actual coverage rates and functionality before proceeding.
- C. For project specific recommendations, please contact Simply Waterproofing.

### 2.2 REPAIRS, CRACKS, JOINTS & FLASHING

- A. Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing.

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- B. Bridge the joints, cracks and flashings with 4" (10 cm) Polyester tape pushing it into the 30 mils (762 microns) pre-stripe of Basecoat. Alternatively, joints and cracks 1/16" (0.15 cm) or larger may be sealed flush with Simply Sealant E-101 concealed with 4" (10 cm) Super Seal Tape (concrete must be primed first and allowed to dry).
- C. Over reinforcement tape, apply a pre-stripe coat of Simply Basecoat material and taper it onto the adjacent surface. Alternatively, no crack chasing or pre-stripe is necessary with the use of Super Seal Tape over a primed surface (see Super Seal Tape Data Sheet).
- D. Allow the surface to cure for 1 to 2 hours.

## 2.3 PRIMING

- A. Prime surface with Simply Primer EP1, EP2 or EP3 at a rate of 1 gallon/300 sq. ft. (0.14 liters/sq. m) or 300 sq. ft. / gallon. Apply using a brush or phenolic-core roller. This will result in 3 dry mils (76 microns) of coating. Existing urethane coated surfaces should be primed with Simply Primer EP3. Rough and pin-holed concrete surfaces may require mor primer. Discovery of these issues is generally revealed in the mockup. See the Tech-Note Section of the Simply Waterproofing website. Do not allow primer to puddle, dry roll excess primer with a dry nap roller to pick up excess primer in puddles and overlaps.
- B. Allow primer to become tack free before proceeding to Coating Application. The point at which the primer is generally discerned as nearly tack free is when the primer passes the thumbprint test. The thumbprint test is defined by when a thumbprint is left in the primer and the primer does not transfer onto the thumb. If the primer has been allowed to remain tack free for more than 12 hours, it is necessary to solvent wipe the primed area and re-prime.
- C. Primer is optional on new or clean stable plywood.
- D. Metal flashings should be sealed with Super Seal Tape prior to the coating application. Metal flashings can also be primed with Simply Primer EP2 after they have been mechanically abraded with an angle grinder followed by a rag wipe with xylene solvent to remove loose particles or oil film.

## 2.4 VEHICLE TRAFFIC COATING APPLICATION

- A. Apply Simply Basecoat mixed material to substrate at a rate of 2 gallons/100 sq. ft. (0.80 liters/sq. m) or 50 sq. ft./gallon. Simply Basecoat mixed material or water-catalyzed mixed Simply Basecoat is a properly homogeneous mixed mixture of four parts Simply Basecoat and one part of water by volume. Application will require more or less material depending on the substrate conditions.
- B. Use a notched trowel or squeegee to spread the Simply Basecoat mixed material evenly over the entire deck resulting in a minimum of 24 dry mils (609 microns) thick membrane.
- C. When Simply Basecoat mixed material begins to gel, approximately 15 minutes after placement, broadcast 14-30 mesh rubber granules into the wet membrane to refusal. Normal usage is 20 lbs. of rubber granules/100 sq. ft. (0.98 kg/sq. m). Two top coats are required when utilizing rubber aggregates. Each topcoat should be applied at a minimum of 100 sq. ft./gallon.
- D. When broadcasting silica sand, allow membrane to thicken to a firm and sticky surface (approximately 30-45 min.) when the sand will adhere but not sink into the basecoat. The aggregate should be dry, washed, and rounded silica sand in the 12-20, 16-30 or 20-40 mesh size as required by project specifications and a 6.5 Mohs scale minimum hardness. Time for thickening to a firm sticky condition is dependent on atmospheric environments especially temperature and humidity. Allow coating to cure 2-4 hours before proceeding to subsequent coats.

- E. When Simply Basecoat is stiff enough to support weight without imprinting or denting the coating or when coating is dry (approximately 2-3 hours at 70 degrees F or 21 degrees C and 50% relative humidity). Remove all loose aggregate by sweeping, vacuum or blowing the excess sand off the deck. Make any touch-up or repairs. Allow repairs to cure.

## 2.5 INTERMEDIATE COAT APPLICATION

- A. Apply desired color of Simply Topcoat at a rate of 1 ¼ gallon/100 sq. ft. (0.51 liters/ sq. m) or 80 sq. ft./gallon. This coat will result in an additional 18 dry mils (457 microns) thick coating. Refer to the chart at the end of this System Description for coverage rates. Broadcast additional aggregate as needed via the 'rain method" to cover any bare or insufficient aggregate placement.
- B. Check that no pin-holing has occurred from concrete gassing.

## 2.6 TOPCOAT APPLICATION

- A. Apply desired color of Simply Topcoat at a rate of 1 gallon/100 sq. ft. (0.41 liters/sq. m) or 100 sq. ft./gallon. This coat will result in an additional 11 dry mils (279 microns) thick coating. Broadcast additional aggregate as needed to cover any bare or insufficient aggregate placement. When using a color pack system, "boxing" from one mixed pail to the next is recommended. Always save 1 gallon or more and mix into the next pail to minimize color variation. Likewise, with pre-tinted topcoats, mix the last gallon or two from the previous batch into the new batch number. Box the last gallons of the last used batch numbers with the new batch number to minimize hue or shading variation.
- B. At 70 degrees F (21 degrees C) and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure before allowing vehicular traffic.

## 2.7 RAMPS & TURN RADII APPLICATION

- A. Over ramps, turn radii, and other heavy traffic areas only, apply an additional desired color of Simply Topcoat at a rate of 1 gallon/100 sq. ft. (0.41 liters/sq. m) or 100 sq. ft./gallon. This coat will result in an additional 11 dry mils (279 microns) thick coating. Broadcast additional aggregate as needed to cover any bare or insufficient aggregate placement.
- B. At 70 degrees F (21 degrees C) and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure before allowing vehicular traffic.

## 2.8 PEDESTRIAN TRAFFIC COATING APPLICATION

- A. Apply Simply Basecoat mixed material to substrate at a rate of 3 gallons/100 sq. ft. (1.2 liters/sq. m) or 33.3 sq. ft./gallon. Simply Basecoat mixed material or water-catalyzed mixed Simply Basecoat is a properly homogeneous mixed mixture of four parts Simply Basecoat and one part of water by volume. Application will require more or less material depending on the substrate conditions.
- B. Use a notched trowel or squeegee to spread the Simply Basecoat mixed material evenly over the entire deck resulting in a minimum of 36 dry mils (914 microns) thick membrane.
- C. When Simply Basecoat mixed material begins to gel, approximately 15 minutes after placement, broadcast 14-30 mesh rubber granules into the wet membrane to refusal. Normal usage is 20 lbs. of rubber granules/100 sq. ft. (0.98 kg/sq. m).
- D. When broadcasting silica sand, allow membrane to thicken to a firm and sticky surface (approximately 30-45 min.) when the sand will adhere but not sink into the basecoat. The aggregate should be dry, washed, and rounded silica sand in the 12-20, 16-30 or 20-40 mesh size as required by project specifications and a 6.5 Mohs scale minimum hardness. Time for

Simply Waterproofing, Inc.

600 West Broadway, Suite 700, San Diego, CA 92101

[info@simplywaterproofing.com](mailto:info@simplywaterproofing.com), [www.simplywaterproofing.com](http://www.simplywaterproofing.com)

Phone: 619-560-7078

thickening to a firm sticky condition is dependent on atmospheric environments especially temperature and humidity. Allow coating to cure 2-4 hours before proceeding to subsequent coats.

- E. When Simply Basecoat is stiff enough to support weight without imprinting or denting the coating or when coating is dry (approximately 2-3 hours at 70 degrees F or 21 degrees C and 50% relative humidity). Remove all loose aggregate by sweeping, vacuum or blowing the excess sand off the deck. Make any touch-up or repairs. Allow repairs to cure.

## 2.9 TOPCOAT APPLICATION

- A. Apply desired color of Simply Topcoat at a rate of 1 gallon/100 sq. ft. (0.41 liters/sq. m) or 100 sq. ft./gallon. This coat will result in an additional 11 dry mils (279 microns) thick coating. Broadcast additional aggregate as needed to cover any bare or insufficient aggregate placement. When using a color pack system, "boxing" from one mixed pail to the next is recommended. Always save 1 gallon or more and mix into the next pail to minimize color variation. Likewise, with pre-tinted topcoats, mix the last gallon or two from the previous batch into the new batch number. Box the last gallons of the last used batch numbers with the new batch number to minimize hue or shading variation.
- B. At 70 degrees F (21 degrees C) and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure.
- C. It is recommended to apply a second coat of desired color of Simply Topcoat at a rate of ¾ gallon/100 sq. ft. (0.31 liters/sq. m) or 133 sq. ft./gallon. This coat will result in an additional minimum 8 dry mils (203 microns) thick coating. A second topcoat is optional with sand aggregate. **When using a rubber aggregate, a minimum of two topcoats is required.**
- D. Optional Fast Cure Topcoat: The addition of Simply Accelerator will shorten the cure time to 6 to 8 hours for each coat.

## 3.1 FINISHED SYSTEMS

- A. When applied as directed above, Simply Traffic Coating Systems will provide superior waterproofing protection. Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.
- B. Material mil thickness rates are calculated on the theoretical coverage for smooth substrate and do not account for actual texture or substrate conditions in the field or at the time of application. Sample mockups on the projects are recommended to determine the exact coverage rates necessary to waterproofing the deck and acceptable standards. Imperfection, spalling, scaling, rough surfaces, potholes, slope correction and other irregular textured surfaces may be filled in with sand or rubber slurry and are estimated outside the stated minimum coverage rates reflected on Product Data Sheets.

## 3.2 LIMITATIONS

- A. **Concrete:**
  1. The following conditions must not be coated with Simply Traffic Coating Systems or products: slabs subjected to moisture migration on the opposite side including, on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks without the use of special primer.
  2. Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 3 surface or greater is required for concrete surfaces to be coated.

3. New concrete must be cured for 28 days unless otherwise approved by Simply Waterproofing in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power washed before coating application.
4. Concrete cleaning (see General & Safety Guidelines). Surface preparation may be completed by shot blasting or use of Simply Profile Etch cleaner. Peel and adhesion tests are recommended.

**B. Plywood:**

1. The only acceptable grade of plywood is APA rated exterior grade or better.
2. The appearance characteristics of the panel grade should be considered.
3. Plywood should be new or cleaned and sanded (see General & Safety Guidelines).

C. Simply Waterproofing deck coating systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks.

D. Uncured materials are sensitive to heat and moisture.

E. A continuous coating application should ensure a deck with no lines of streaks.

F. The substrate must be structurally sound and sloped for proper drainage.

G. Simply Waterproofing assumes no liability for substrate defects.

**3.3 JOB COMPLETION**

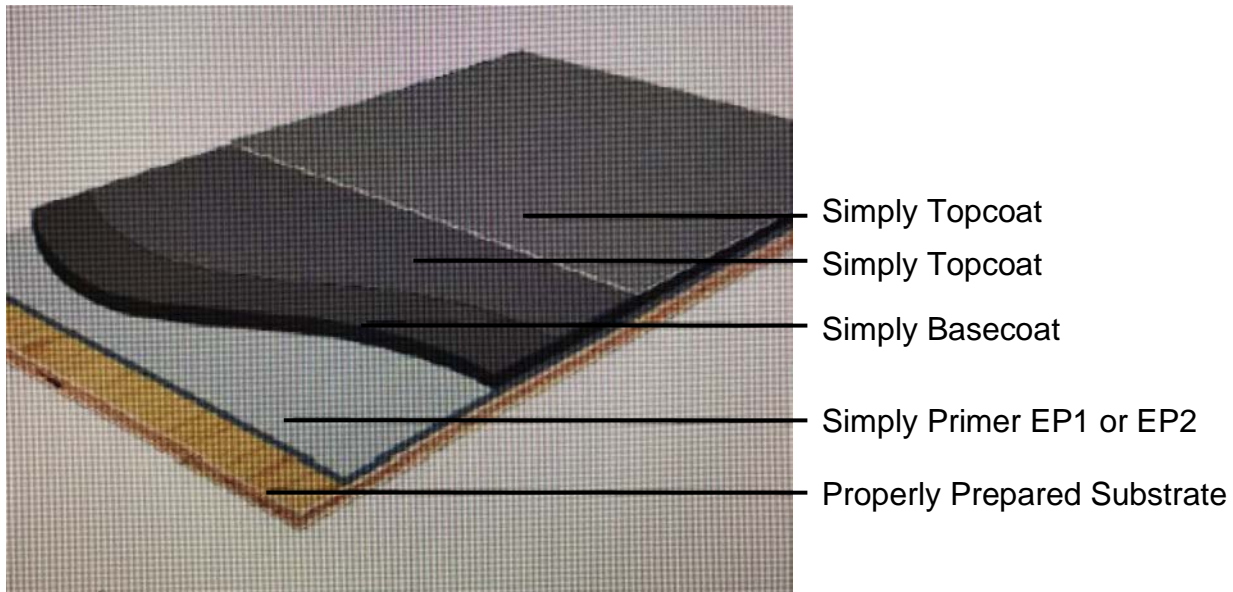
- A. Equipment should be cleaned with a urethane grade, environmentally safe solvent, as permitted under local regulations, immediately after use.
- B. Field visits by Simply Waterproofing personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the jobsite.
- C. Simply Waterproofing personnel must have an opportunity to review the applications in order to validate the warranty provisions.

**Warning: The products in these systems contain solvent, isocyanates, epoxy resin and curatives.**

**COVERAGE RATE CHART**

Primer: Simply Primer EP1, EP2	Basecoat: Simply Basecoat	Topcoat: Simply Topcoat
1-gallon/300 sq.ft. (0.14 L/sq. m)	3-gallon/100 sq.ft. (1.2 L/sq. m)	1 <sup>st</sup> : 1-gallon/100 sq.ft. (0.41L/sq.m)
300 sq.ft./gallon	33.3 sq.ft./gallon	100 sq.ft./gallon
		2 <sup>nd</sup> : ¾ gallon/100 sq.ft. (0.31L/sq.m)
		133 sq.ft./gallon or
		Simply Topcoat may be substituted
		with: Simply Clear Topcoat

# SIMPLY WATERPROOFING



Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the Products or have undergone training in application of Simply Products. Published technical data and instructions are subject to change without notice. Contact your local Simply Waterproofing representative or visit our website for current technical data, instructions, and project specific recommendations.

#### LIMITED WARRANTY

Simply Waterproofing warrants its products to be free of manufacturing defects and that they will meet current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Simply Waterproofing shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Simply Waterproofing shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Simply Waterproofing reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

#### DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Simply Waterproofing makes no claim that these tests or any other tests, accurately represent all environments.

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