



FLEX-COAT DECK

GUIDE SPECIFICATIONS

SYSTEM

REVISION : 02/27/2023



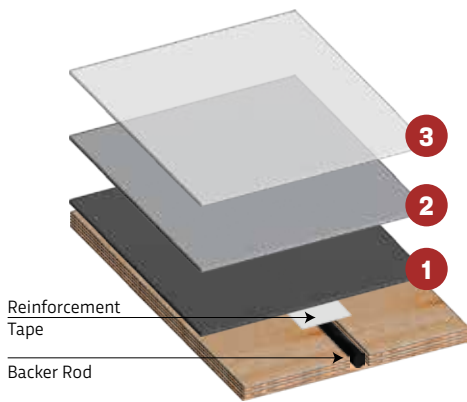
FEATURES

- » Seamless
- » Elastomeric
- » Meets USDA Criteria
- » Environmentally Safe
- » Chemical Resistance
- » Rapid Setting and Cure Times
- » Non-Gassing
- » Flexible
- » Solvent Free
- » Excellent Low Temperature
- » Good Thermal Stability

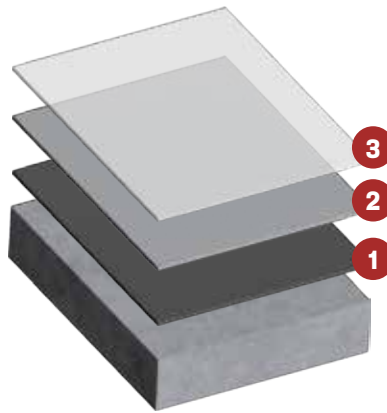
TYPICAL USES

- » Balconies
- » Walkways
- » Patios
- » Sun Decks

PLYWOOD SUBSTRATE



CONCRETE SUBSTRATE



- 1- FLEX-COAT DECK PRIMER** (optional on new plywood)
- 2- FLEX-COAT DECK MEMBRANE**
- 3- POLY85 TOP COAT**

PACKAGING

FLEXCOAT DECK PRIMER	2 Gallons Kit (7.57 L) or 10 Gallons (37.8 L)
FLEX-COAT DECK MEMBRANE	1 Gallons Kit (3.78 L) or 5 Gallons Kit (18.9 L)
POLY85 TOP COAT	2 Gallons Kit (7.57 L) or 10 Gallons (37.8 L)

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Primers, base and topcoats have a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

DESCRIPTION

The Vital Coat Flex-Coat Deck System is a very fast setting, rapid curing, high solids, polyurethane/polyurea, liquid applied, chemically cured, rapid return-to-service waterproof coating system. The system utilizes a two-component epoxy primer, a two-component, non-gassing, thermal stable, elastomeric basecoat, and a hybrid polyaspartic topcoat.

The Flex-Coat Deck System is a user friendly, low-odor coating system that is specifically designed to be tough and durable enough to withstand light to heavy pedestrian traffic. It is a high elongation elastomeric system which properties allow it to expand and contract with normal structural movements. It can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on pedestrian decks. It will neither soften in heat nor become brittle in the cold. Recommended system coverage mil thickness: light pedestrian traffic systems, 36 dry mils (944 dry microns) and heavy pedestrian traffic systems 48 dry mils (1219 dry microns). Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

PRODUCT INSTRUCTION

For complete information associated with the application of Flex-Coat Deck system and products, refer to the Technical Data Sheets, which describes the products, surface preparation, job conditions, finishing details and other necessary information.

COATINGS APPLICATION

NOTE: Flex-Coat Deck Membrane may not be diluted under any circumstances. Proportions are pre-measured. Using a mechanical mixer, first pre-mix separately Part-A and Part-B base material thoroughly to attain a uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour Part-B into Part-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Part-A and Part-B mixture thoroughly until uniform color is attained. Do not mix in an up and down motion.

APPLICATION

PHASE 1: Check area of application to ensure that it conforms to the substrate requirements. Prime all joints, cracks, flashings with approved primers as specified below in Phase 2. Apply Flex-Coat Deck Membrane over all joints, cracks and flashing. Do not mix more material than can be used in 20 minutes. Bridge the joints, cracks, and flashings with 4" (10.2 cm) Straight Jacket Tape, pushing it into the paste with a trowel. Over Straight Jacket Tape, apply a stripe coat of the Flex-Coat Deck Membrane and taper it onto the adjacent surface. Allow the surface to cure for 6 to 8 hours.

PHASE 2: Substrates other than new plywood are to be primed. Primer is optional for new plywood. Metal and concrete which have been cleaned should be primed with Flex-Coat Deck Primer 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 a minimum 4 dry mils (102 microns) thick membrane.

Note: For rough or porous concrete or when out-gassing is a concern, use Flex-Coat Deck Primer at an approximate rate of 1 gallon/200 sq.ft. (0.21 liters/sq.m.) or 200 sq.ft./gallon; this rate may vary on the porosity of the substrate. Allow primer to become tack free before moving onto the Coating Application. The point at which the primer is deemed tack free is when the primer passes thumbprint test. The thumbprint test is defined by when a thumbprint

is left in the primer and primer does not transfer to the thumb. If the primer has been allowed to remain tack free for more than 12 hours, it is necessary to solvent wipe surface with VOC-compliant solvent and re-prime the surface.

PHASE 3: Apply Flex-Coat Deck Membrane to substrate at a rate of 1½ gallons/100 sqft (0.62 liters/sqm) or 66 sqft/gallon. For best results, use a 1/8" (0.32 cm) notched trowel or flat squeegee. A 3/8" (0.965 cm) nap phenolic core roller may be used, but extra care should be taken to prevent air bubbles. Spread mixed Flex-Coat Deck Membrane evenly over the entire deck resulting in a minimum of 22 dry mils (559 ± 51 microns) thick membrane. Allow Flex-Coat Deck Membrane to cure before proceeding to phase 4.

Note: Flex-Coat Deck base coats should be applied the same day as the primer to avoid missing the primer re-coat window. If this is not possible, broadcast heavy with aggregate into the primer to aid in the adhesion of the base coat to the primer. Do not exceed re-coat window of 12 hours after cure and if re-coat window is passed, then solvent wipe the surface with VOC-compliant solvent and re-prime before proceeding with the next coat/phase.

PHASE 4: For light pedestrian traffic, apply PP-S85 at a rate of ¾ gallon/100 sqft (0.31 liters/sqm) or 120 sqft/gallon. Immediately broadcast and back roll washed, dry, rounded sand, 20 mesh (0.841 mm), 6.5+ Mohs minimum hardness at a rate of 10-15 lbs/100 sqft (0.50-0.75 kgs/sqm), into the wet second coat, covering it completely. This coat will result in an additional minimum 12 ± 2 dry mils (304 ± 51 microns) thick membrane, exclusive of aggregate. After this coat has cured, remove all loose aggregate.

For heavy pedestrian traffic, apply PP-S85 at a rate of 1½ gallon/100 sqft (0.62 liters/sqm) or 66 sqft/gallon. Immediately broadcast and backroll washed, dry, rounded sand, 20 mesh (0.841 mm), 6.5+ Mohs minimum hardness at a rate of 10-15 lbs/100 sqft (0.50-0.75 kgs/sqm), into the wet second coat, covering it completely. This coat will result in an additional minimum 24 ± 2 dry mils (610 ± 51 microns) thick membrane, exclusive of aggregate. After this coat has cured, remove all loose aggregate.

FINISHED SYSTEM: When applied as directed above, the Flex-Coat Deck System will provide minimum 36 to 48 dry mils \pm 5 (914 to 1143 \pm 125 dry microns), exclusive of aggregate, of superior waterproofing protection. Requires a continuous coating application to minimize lines and/or streaking. Any optional adhesion test is to be performed seven days after product application.

LIMITATIONS

The following conditions must not be coated with Vital Coat Flex-Coat Deck systems or products: on grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, or concrete with a structural integrity less than 3000psi. Concrete must exhibit 3000psi minimum strength. Concrete 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-haired 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. New concrete must be cured for 28 days. Flex-Coat Deck systems should not be subjected to rising water tables or hydrostatic pressure on slab-on-grade decks. The only acceptable grade of plywood is APA rated exterior grade or better. The appearance and physical characteristics of the plywood and grade should be considered. Plywood should be new or cleaned and sanded. The coating should be applied at least 5°F (3°C) above the dew point. Coverage rates recommended are based on lab conditions, applied at 75°F (24°C) ambient temperature and are intended to be minimum coverage rates on clean, smooth plywood, and are exclusive of additional amounts needed to fill potholes, spalling, scaling, rough and irregular surfaces. Porosity and roughness of the substrate, aggregate size, and product temperature will affect coverage rates. Material mil thickness rates are calculated on theoretical coverage for a smooth substrate and do not account for the 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 waterproof the deck to acceptable standards. Equipment should be cleaned with a urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use. Uncured materials are sensitive to heat and moisture. The substrate must be structurally sound and sloped for proper drainage. Flex-Coat Deck assumes no liability for substrate defects.

WARNING The products in this system contain Isocyanates, Solvents, Epoxy Resin, and Curatives.

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 users 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 Vital Coat makes no claim that these tests or any other tests, accurately represent all environments. © 2023 NxTech Holdings LLC. All rights reserved.