



TuffDeck 810/850™

Two Component, Fast Setting, Rapid Curing, Solvent-Free Basecoat

TECHNICAL DATA SHEET TDB10650062525NNA01

DESCRIPTION

TuffDeck 810/850™ is a two component, fast setting, rapid curing, solvent free, flexible, high performance, high solids, urethane-elastomer base membrane that can be applied to prepared interior or exterior concrete, plywood and metal surfaces. Due to its fast gel time, TuffDeck 810/850™ is suitable for applications in temperatures as low as 20°F (-6.7°C). It may be applied in a single application or in multiple applications. TuffDeck 810/850™ is also relatively insensitive to moisture and temperature, allowing applications in various temperatures and humidity. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

FEATURES

- Can Be Applied at Any Thickness
- Coats Green (Vented) Concrete
- Excellent Low Temperature Flexibility
- Expansion Joints
- Good Chemical Resistance
- Good Thermal Stability
- Interior or Exterior Applications
- Meets USDA Criteria
- Non Gassing
- Recoatable
- Seamless

INSTALLATION



NOTCH TROWEL

TYPICAL USES

- Exterior & Interior Pedestrian Traffic Walkways, Patios, Stairways
- Interior Surfaces (ex. Mechanical Rooms)
- Stalls, Wash Racks & Kennel Runs
- Sun Decks & Balconies
- Vehicular Traffic Areas

COLOUR

- Medium Grey
- Tan color is available upon request with minimum order of 250 gallons (945 liters). Custom colours are also available with a minimum order of 250 gallons (945 liters). See colour chart for special provisions.

PACKAGING

1-gallon kit: 1 gallon can, net 0.8 gallon (3.03 liters) of Side-A and 1 quart can, net 0.2 gallons (0.78 liters) of Side-B

5-gallon kit: 5 gallon pail, net 4 gallons (15.15 liters) of Side-A and 1 gallon can, net 1 gallon (3.78 liters) of Side-B

SURFACE PREPARATION

Refer to General and Safety Guidelines for complete information. 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 Etch cleaner. Peel and adhesion tests are recommended. Install a 100-200 sqft (9.30-18.58 sqm) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

MIXING

Using a mechanical mixer, first separately premix Side-A and Side-B base material thoroughly to attain a uniform colour, making sure to scrape the solids from the bottom and sides of the pail.

Pour Side-B into Side-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Side-A and Side-B mixture thoroughly until uniform color is attained.

NOTE: TuffDeck 810/850™ may NOT BE DILUTED under any circumstances.

DO NOT ESTIMATE: The proportions are premeasured.

SUSTAINABILITY

NaturaSeal® products support sustainable and energy-efficient building practices, and achieving LEED® certification (LEED® for New Construction).



JOINTS, CRACKS, AND FLASHING

Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing. Bridge the joints, cracks and flashing with 2.75-4" (7-10.14 cm) polyester or polyurethane foam tape pushing the tape into the 20 mil (508 microns) pre-stripe of the basecoat. Alternatively, joints and cracks 1/16" or larger may be sealed flush with caulking concealed with 4" (10 cm) Super Seal Tape (concrete must be primed first and allow to dry).

Over reinforcement tape, apply a pre-stripe coat of TuffDeck 810/850™ 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). Allow the surface to cure for 1 to 2 hours.

APPLICATION BASICS

For best results use a squeegee or notched trowel to spread TuffDeck 810/850™ evenly over the entire deck. TuffDeck 810/850™ should be applied at a temperature of 20°F (-6.7°C) and above. Curing time will depend on temperature.

TuffDeck 810/850™ may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil (25.4 microns) thickness is one gallon (3.78 liters) per 1520 sqft (141 sqm). Refer to individual Systems Description under System Specifications Section of the NaturaSeal catalog or website for specific coverage rates.

COVERAGE RATES

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.

Usage Cases:

- 1. Pedestrian Traffic Area**
 - Aggregate: 1-1.5lb per 100 sqft
 - 35 Mils – TuffDeck 810

	Dry Film Thickness (DFT)	SF/Gallon
Base Coat	20 Mils	76.19
Top Coat	15 Mils	101.59

- 2. Low Duty Traffic – Vehicular Parking Deck Coating**

- Aggregate: 2-2.5lb per 100 sqft
- 35 Mils – TuffDeck 810

Dry Film Thickness (DFT)	SF/Gallon
35 Mils	43.54

- 3. Medium Duty Traffic – Drive Lanes**

- Aggregate: 2.5-3lb per 100 sqft
- 45 Mils – TuffDeck 810

	Dry Film Thickness (DFT)	SF/Gallon
Base Coat	20 Mils	76.19
Top Coat	25 Mils	60.95

- 4. Heavy Duty Traffic – Ramp Area**

- Aggregate: 4-4.5lb per 100 sqft
- 55 Mils – Tuffdeck 810 + Tuffdeck 850

	Dry Film Thickness (DFT)	SF/Gallon
Base Coat	20 Mils	76.19
Top Coat	35 Mils	43.54

CURING

Curing time will depend on temperature. TuffDeck 810/850™ may be fully reinforced while wet. TuffDeck 810/850™ has a relatively short pot life and should be mixed and used immediately. Do not mix the product until you are ready to apply it.

EQUIPMENT CLEANUP

Equipment should be cleaned immediately after use with an environmentally-safe solvent, as permitted under local regulations.

SHELF LIFE AND STORAGE

TuffDeck 810/850™ has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

NATURASEAL NORTH AMERICA

960 Edgeley Blvd. Unit #4,
Vaughan, ON L4K 4V4, Canada
www.naturaseal.com | info@naturaseal.com

NATURASEAL INTERNATIONAL

The Offices at IBN Battuta Gate 8th Floor Office 804B,
P.O. Box 214771, Jabel Ali First, Dubai U.A.E.
www.naturaseal.ae | contact.international@naturaseal.ae

TuffDeck 810/850™

Two Component, Fast Setting, Rapid Curing, Solvent-Free Basecoat

TECHNICAL DATA SHEET TD810850062525NNA01

LIMITATIONS

- Do not open until ready to use. Any off ratio mixing of the product will affect the properties and the product may not cure.
- Contains some high boiling colorless plasticizers.

The following conditions must not be coated with NaturaSeal deck coating systems or products:

- 1) 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, or areas where hydrostatic pressure is or may be present, without the use of a primer. NaturaSeal Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.
- 2) Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.
- 3) New concrete must be cured for 28 days unless otherwise approved by NaturaSeal 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 and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of Etch (PE) cleaner. Peel and adhesion tests are recommended.

APPROVALS / CERTIFICATE

CE Marking, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

PRODUCT INFORMATION

Physical Properties	Typical Results
Odour	Low
Colour	Medium Grey
Packaging	3.8 L kit or 18.9 L

TECHNICAL INFORMATION

Performance (Cured Membrane)	ASTM Method	Typical Results
Specific Gravity		Side A: 1.05 ± 0.1 / Side B: 0.99 ± 0.1
Hardness, Shore A	D2240	80 ± 3
Pot Life (min @ 75°F [24°C], 50% RH)		10 ± 2 minutes
Tack Free Time		3-4 Hours
Tensile strength	D412	2500 ± 100 pli (17.2 ± 0.7 kN/m)
Elongation	D412	800 ± 100%
Tear strength	D624	300 ± 25 pli (52.5 ± 4.4 kN/m)
Viscosity, at 75°F (24°C)		Side-A: 1500-2500 cps / Side-B: 50-150 cps
Total Solids by Weight	D2369	94 ± 2%
Total Solids by Volume	D2697	95 ± 2%
Volatile Organic Compounds	D2369-81	<0.49 lbs/gall (59 gm/liter)

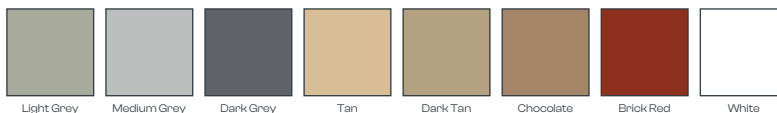
Information contained in this data sheet is up-to-date and correct as at the date of issue. All value represented are nominal and subject to 10% tolerance unless noted otherwise.

We warranty that our products are in conformance with the standards of quality control established by NaturaSeal. As we cannot control or anticipate the conditions under which the products may be used, each user should review the information in specific context of the planned use. NaturaSeal makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to NaturaSeal Products.

To the maximum extent permitted by law, we will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet.

Please contact NaturaSeal for applicable warranty programs and general terms and conditions.

STANDARD COLOURS



AFFILIATES



PIONEERING THE FUTURE TODAY

NATURASEAL NORTH AMERICA

960 Edgeley Blvd. Unit #4,
Vaughan, ON L4K 4V4, Canada
www.naturaseal.com | info@naturaseal.com

NATURASEAL INTERNATIONAL

The Offices at IBN Battuta Gate 8th Floor Office 804B,
P.O. Box 214771, Jabel Ali First, Dubai U.A.E.
www.naturaseal.ae | contact.international@naturaseal.ae