

SealBoss®

FlexCoat



Product Data Sheet

Fast Cure Polyurethane Coating With Outstanding Elongation Properties

SealBoss® FlexCoat Features

- Solvent Free, Non-Gassing
- Apply at ANY Thickness
- Excellent Thermal Stability & Chemical Resistance
- Low Temperature Flexibility
- Interior / Exterior Applications

Typical Application Environments

- Vehicular Traffic Areas
- Sundecks, Balconies
- Stalls, Wash Racks, Kennel Runs
- Pedestrian Traffic Surfaces
- Industrial Floors, Mechanical Rooms
- Flexcast: Floor Joints and Cracks

Product Description

Type of Material

SealBoss® FlexCoat is a high tech, polyurethane coating combining excellent strength with outstanding flexibility. The solvent free formula product can be mixed with fillers for extra thickness and to lower the cost per unit. The material is spread to achieve a self-leveling and fast curing waterproofing base membrane or to fill joints, voids and cracks. Selected rubber texture granules and/or sand may be broadcast on the not yet completely cured surface. A final seal coat of moisture-cured aliphatic or aromatic urethane color coat is applied.

Range of Application

SealBoss® FlexCoat is designed for rapidly applied and fast cure installations over prepared surfaces. The product can be used as a specialty membrane but also offers significant void and joint filling capabilities with extreme elongation properties. The unique acceptance of the product to additives such as sand and quartz fillers combined with fast cure features allow for installations of any desired thickness under a wide range of weather conditions. SealBoss® FlexCoat can be used for seamless, flexible, durable, slip resistant, decorative, protective and highly waterproof membranes on exterior pedestrian traffic surfaces such as balconies, walkways, patios, stairways, sidewalks, etc.; interior surfaces such as mechanical room floors, work areas, shower pans and stalls, display floors, etc.; on boat and ship decks made of metal, wood and fiberglass; vehicular traffic areas such as rooftop parking decks and ramps made of concrete or asphalt, etc.; exterior wooden and concrete sun deck areas such as pool surrounds, ski lodge sun-decks, rooftop play areas, etc.; equestrian and animal habitats such as stalls, wash racks, kennel runs hot-walkers, etc.; athletic surfaces etc.

SealBoss® FlexCoat can be used to seal, fill and cast into cracks, voids, joints and control joints. It can be applied as a mortar to level out imperfections in surfaces at various thicknesses.

Processing

General Information

SealBoss® FlexCoat is a two-component, liquid applied, polyurethane elastomeric waterproofing base membrane. SealBoss® FlexCoat must not be diluted under any circumstances. Surfaces to be coated must be dry, clean, free of foreign matter, and generally should be primed with our

PU or epoxy primer.

Shelf Life: Six months at 75°F (24°C) in sealed, unopened containers.

Packaging: SealBoss® FlexCoat is available in four gallon A and one gallon B containers. The A container is of 5 gal volume to accept the B side for mixing purposes.

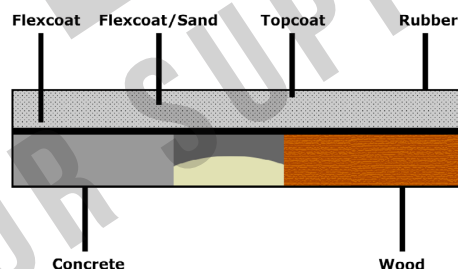
Primers are available in 1 or 5 gallon containers. Rubber granules are available in 50 pound bags.

Preparation of Substrates

All Surfaces must meet all applicable building and safety codes in the prescribed city, county or state. Substrate must be structurally sound and sloped for proper drainage. We assume no liability for substrate defects!

Successful bonding requires structurally sound, strong, and clean substrates. The substrate must be cleaned to ensure that it is free of all oils, "laitances", greases and other contaminations. Adhesives, sealing membranes, etc., should not be applied until the surface is dry.

SealBoss® FlexCoat permits more movement with moving cracks and joints.



Application of Membrane

Before application, mix SealBoss® FlexCoat thoroughly by hand or using a mechanical mixer (Jiffy Mixer) at slow speeds at the correct ratio of 4:1 A:B parts by volume. A filler material such as sand, quartz sand or rubber granules may be used. This rapid setting liquid is spread at any desired thickness onto the prepared and primed surface.

For best results apply with a squeegee or notched trowel to spread material on properly cleaned, prepared, graded, flashed, and primed dry substrates. Application of the SealBoss® FlexCoat system should be done in one complete step to create a smooth uniform self leveling surface without cold joints, lines or streaks.

If desired, broadcast rubber granules immediately into the newly created wet membrane or broadcast a #1 or #2 graded washed dry sand (20 mesh) after the membrane has set long enough so the sand does not sink, covering it completely to provide a slip resistant surface. Allow to cure 2 to 4 hours or until stiff enough to support weight before collecting surplus broadcasting material and applying the colorcoat, tile or other surface coating. Note: Curing time depends on humidity and temperature. Low temperature and low humidity retards the curing time.

Equipment Cleanup: Equipment should be cleaned with

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environmentally-safe solvent as permitted under local regulations immediately after use.

Rubber Granules

While the surface is still wet and receptive, an excess of rubber texture granules or sand may be broadcast onto and into the surface to create the desired slip-resistant surface texture. After the membrane has cured to accept foot traffic, all granules not bonded shall be removed and the surface is top coated.

Rubber granules are selected to add to the base membrane integrity and improve surface texture characteristics to achieve nonskid characteristics. Rubber granules range in size from 40 mesh through 3/16 inch diameter. They are sometimes stringy and come in various degrees of hardness and flexibility.

Primers and TopCoats

Solvent-free and odorless PU primer is recommended to assure a positive and durable bond to all properly prepared substrates. Epoxy based primer may add a better adhesion on some more critical surfaces such as metal.

SealBoss® FlexCoat is typically finished with a topcoat or colorcoat. A variety of aliphatic and aromatic single-component, moisture-cured urethane rubber colorcoats are available for various requirements. They are of high solids and flexible, with excellent resistance to abrasion. Standard colorcoats are available. Special colors can be formulated subject to quantity and additional tinting costs.

Caution

It is mandatory to observe all local and federal laws and regulations when applying coating products. Stringend V.O.C. standards have been imposed on State levels as well as County levels. Be certain to get the correct product and to be in compliance.

Maintenance

Precautions

Polyurethanes and solvents may cause health problems if used without adequate ventilation or fresh air respiration, so precautions must be taken to protect all occupants on the job site during installation. The uncured components of SealBoss® FlexCoat can cause irritation to the eyes, skin, mucous membranes, and is harmful if swallowed. When handling avoid contact with eyes and skin. In case of contact, immediately wash off with plenty of water for at least fifteen minutes. For eyes, obtain medical attention. Always wash hands before eating. Obtain immediate medical attention in case of ingestion. SealBoss® FlexCoat contains isocyanates and may cause allergic respiratory reactions. Individuals with chronic respiratory problems or prior respiratory reactions to such materials should not be exposed to vapors. When applying SealBoss® FlexCoat avoid breathing harmful vapors. Fresh air-supplied standard painter's hood or full face respirator may be necessary to be worn by all personnel in confined areas where SealBoss® FlexCoat, primers and top coats are being applied until all vapors have been exhausted. Please comply with all OSHA regulations. In case of extreme exposure or adverse reaction, remove affected personnel to fresh air immediately and obtain medical help. For additional health and safety information consult the Material Safety Data Sheet.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove.

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

In case of surface damage, SealBoss® FlexCoat can be repaired by first abrading the surface six inches 6 in (15 cm) around the damaged area. The surface should then be cleaned with an environmentally-safe solvent (as permitted under local regulations) to ensure that the surface is free of all dust particles, oils, greases, or any other foreign matter that will impair bonding. Allow the area to completely dry before priming the surface with primer and reapplying.

Health and Safety

Protect your health! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. Always use safety gear in compliance with OSHA and all applicable local and job-site regulations while working with products. Wear appropriate safety goggles, gloves and safety clothing. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals!

For additional information, please refer to:

SealBoss® FlexCoat Tips

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Technical Data

		FlexCoat
Weight	ASTM E-201	10.5 lb/gal
Solid Content	By Volume	95%
Plasticizers, High Boiling		<5%
Hardness	ASTM D-2240, Shore A	60-68
Elongation	ASTM D-412	1000%
Tensile Strength, psi	ASTM D-412	1500
Adhesive Strength, psi (peel on primed concrete)	ASTM D-903	175
Tear Resistance, psi	ASTM D-624	230
Split Tear, psi	ASTM D-470	60
Pot Life (min @ 75°F, 50% RH)		15
Min. Application Temperature		35°F
Max. Concrete Moisture Content		<5%
Min. Concrete Cure Time Prior To Application		28 Days

NOTE: Materials filled with aggregate show higher Shore A readings

Chemical Resistance

14 day immersion at 77°F of 40 mil Flexcoat Film and 20 mil Topcoat film

	Flexcoat	Topcoat
Salt Water	No effect	No effect
Distilled Water	No effect	No effect
5% Detergent Solution	No effect	No effect
Chlorinated Pool Water	No effect	No effect
Antifreeze	No effect	No effect
Motor Oil	Stain	Slight stain
Hydraulic Brake Fluid	Slight bleaching	Slight bleaching
Gasoline	Slight swelling	Slight stain

YIELD (approximate coverage at suggested thickness)

Flexcoat		
1.0 mil system	1600 sq ft per 1 gal	
40.0 mil system	40 sq ft per 1 gal	
40.0 mil system	200 sq ft per 5 gal	(1 unit = 4 gal A + 1 gal B)
Primer		
thinly applied	300 sq ft per 1 gal	
	1500 sq ft per 5 gal	
Topcoat		
applied to cover	100 sq ft per 1 gal	
	500 sq ft per 5 gal	



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SealBoss Corp. USA info@sealboss.com

ph. 877-932-2293 intl. 1+ 714-662-4445

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