

Pecora-Deck HB1000 Traffic Membrane

High build, fast curing, industrial grade urethane traffic bearing membrane



SPECIFICATION DATA SHEET

BASIC USES

- Protective monolithic industrial coating for concrete, wood and other traffic and nontraffic bearing horizontal surfaces.

MANUFACTURER

Pecora Corporation

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PRODUCT DESCRIPTION

Two component, self-leveling, fast curing, monolithic, high build, low VOC, weather resistant polyurethane coating. Pecora-Deck HB1000 may be applied in a single coat directly over concrete and plywood or over the Pecora-Deck 802/802FC elastomeric base coats when a waterproofing system is required. For use in both exterior and interior applications.

Advantages:

- UV resistant
- Chemical Resistance
- Low/no odor
- VOC compliant
- Abrasion resistant
- Machinable
- Fast curing
- Excellent adhesive characteristics
- Compatible with wide range of coatings and sealant materials.
- High Impact resistance

Limitations:

- Over expansion joints greater than 1/2" (12mm) in width.
- Do not apply to damp or wet surfaces
- Do not apply when surface temperatures exceed 100 F.
- A primer may be required for highly porous surfaces.

Surface Preparation:

All surfaces must be level, clean, and dry. Remove all foreign materials such as coatings, loose dirt and other contaminants by means of mechanical abrasion, high pressure air, sand blasting, solvent wipe, or vacuum to achieve a clean, dry, virgin surface. The use of a primer may be required for enhanced adhesion or for sealing of

porous surfaces to avoid outgassing prior to application of Pecora-Deck HB1000 Membrane. All seams, joints, and cracks exceeding 1/16" in width must be pre-sealed utilizing Pecora Deck-Seal polyurethane joint sealant.

Surface Leveling:

For uneven surfaces exhibiting low spots in excess of 3/16" the use of an approved leveling compound may be required prior to application of HB1000.

Priming:

The use of Pecora P-801VOC or P-808 primer may be required prior to application on porous surfaces. Consult Pecora Technical Services for primer recommendations and detailed primer application instructions.

Applicable Standards:

Pecora-Deck HB1000 complies with ASTM C 957. Certified to USDA BioPreferred® Program including 53% biobased content verification per ASTM D6686.

PACKAGING

- HB1000 (1.6 gallon/6.0L kit): Part A: 1.12 gallons (4.2L); Part B: 0.48 gallons (1.8L)
- HB1000 (5.5 gallon/20.8L kit): Part A: 3.85 gallons (14.6L); Part B: 1.65 gallons (6.2L)

Related Products:

- 802FC Base Coat
- 802 Base Coat
- Dynapoxy Healer Sealer
- Dynapoxy Low-Mod Epoxy
- P-808 Primer
- P-801VOC Primer
- HB1000 Accelerator
- Pecora Deck-Seal

COLOR

- Stone Grey, Tan and Colonial Grey (standard) and custom colors available. Field tintable neutral color base may be utilized with Pecora Deck-Packs and/or custom color packs. See mixing instructions for details on Pecora Deck-Packs.

TYPICAL PROPERTIES

Test Property	Value	Test Procedure
Working Life (minutes @ 77F)	25-35	Pecora Corporation
Solids Content (% , by wt.)	97	Pecora Corporation
Service Temperature Range	-20°F to 180°F	Pecora Corporation
Recoat Time (hours)	4	Pecora Corporation
Full Cure (Hours) 75F/50%RH	24	Pecora Corporation
Hardness (Shore D)	40	ASTM D2240
Ultimate Tensile Strength (psi)	2100	ASTM D412
Ultimate Elongation (%)	95	ASTM D412
Tear Strength (pli)	306	ASTM D624
Abrasion Resistance(1000 cycles)	77 mg loss	ASTM D4060
Viscosity, Part B-Activator (cps)	300	Brookfield
Viscosity, Part A-Base (cps)	16000	Brookfield
Viscosity, mixed (cps)	9000	Brookfield
VOC (g/l)	<1.0	Pecora Corporation
Mix Ratio		
by wt:	4.0:1.4	Pecora Corporation
by vol:	3.8:1.6	Pecora Corporation
Part A - base density (#/gal)	11.18	Pecora Corporation
Part B - activator density (#/gal)	9.09	Pecora Corporation
Biobased Content (%)	53	ASTM D6686

HB1000 Accelerator:

Use appropriate PPE when handling the HB1000 components. Add the appropriate amount of HB1000 Accelerator to a full 5.5 gallon kit of HB1000 just prior to mixing. Follow mixing instructions and be aware of worklife limitations as indicated in the table below. Empty contents of mixed, activated HB1000 Top Coat in ribbon patterns as quickly as possible and spread with V notched squeegee to the appropriate wet film thickness.

Pecora-Deck HB1000 Packaging	Ambient Temperature	Pecora-Deck HB1000 Accelerator	Work Life	Open to Pedestrian Traffic	Open to Vehicular Traffic
5.5 gallon	40°F	30mL	25 minutes	10 hours	18 - 22 Hours
	50°F	20mL	25 minutes	10 hours	18 - 22 Hours
	60°F	10mL	25 minutes	10 hours	18 - 22 Hours
	70°F	None	30 minutes	8 hours	14 - 18 Hours
	80°F	None	25 minutes	8 hours	14 - 18 Hours
	90°F	None	25 minutes	8 hours	14 - 18 Hours

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Mixing:

Add entire contents of Part B to Part A. Use a properly sized jiff y mixing paddle or equivalent and mix for (4) minutes being sure to move the mixing paddle across bottom of container and vertically throughout mixing can to ensure complete incorporation of components. Apply entire pail contents immediately.

Pecora Deck-Packs:

Remove lid from Deck-Pack can or cut open Universal Color Pack and immediately pour entire contents of package into the pail. Add the activator along with the colorants. Mix the components as instructed in the aforementioned "Mixing" section. If color uniformity is not achieved continue to mix until a uniform color is achieved. Refer to the table below for color pack requirements:

HB1000 Package Size	Colorant Package Type	Quantity Required
5.5 gallon kit	Deck-Pack	1
	Universal Color Pack	6
1.6 gallon kit	Universal Color Pack	2

Pecora Deck Packs and Universal Color Packs are recommended for use in field-tintable neutral base only. Field tintable custom colors are supplied in Deck-Packs only.

Joint Treatment

Static (non-moving) cracks greater than 1/16" in width, changes in plane and any projections through deck must be sealed prior to deck coating application. Dynamic (moving) cracks less than 1/16" in width should be saw cut to a minimum 1/4" wide by 1/2" deep. Expansion joints 1/2" wide or less may be coated over. A minimum of 6" wide detail coat of 802 or 802FC base coat at 20 wet mils is required over the expansion joint sealant prior to full scale coating application. Expansion joints greater than 1/2" wide should not be coated over.

Coverage Rate:

WFT, Mils	sq ft/gallon
12	130
25	64
50	32
125	12.5

Application:

On properly prepared surfaces, pour the fully mixed material in 6-8 inch ribbons across surface to be coated. Use an appropriately sized V-notched squeegee to uniformly spread the material across the surface to be coated.

Wet film thickness of approximately 12 to 125 mils may be achieved using the

method described above. This high build material can be applied up to 500 mils (0.50 inches) if necessary without adverse effects.

Broadcast appropriate sized aggregate into applied coating based on wet mil thickness achieved. Contact Pecora Technical Services or application guide for specific aggregate recommendations.

Please reference the HB1000 application manual or contact the Pecora Technical Service group for further information. Allow material to level before attempting to measure wet film thickness by means of film thickness gauge.

Integral Aggregate Option (HB1000TXTR):

The HB1000TXTR is supplied with an integral aggregate that eliminates the need for manual aggregate application. HB1000TXTR with integral aggregate must be mixed immediately prior to use as settling may occur during storage. A simple 5 minutes mix should be sufficient to redispense the integral aggregate throughout the 5.5 gallon unit of HB1000TXTR. Apply HB1000TXTR using a 1/4" V-notched squeegee. Back roll in two directions with a 1/4" nap roller to achieve a uniform aggregate distribution and appearance in the finish coat. The HB1000TXTR is designed to be applied at a 25 mil thickness or approximately 64 sq ft / gallon. Contact Pecora Technical Service for alternate coverage rates.

Maintenance:

Surface may be refreshed with additional sanding followed by fresh top coat if desired. Cosmetic cleaning may be achieved through pressure washing and/or scrubbing with industrial water based cleaner and stiff bristle brush.

Storage Life:

24 months from date of manufacture when stored in original unopened containers at temperatures below 80°F (27°C).

Pecora HB1000 Chemical Resistance Chart

R=Recommended
C=Intermittent Contact
NR = Not Recommended

Chemical

Acetic Acid, 10%
Acetic Acid, 30%
Acetic Acid, 50%
Ammonium Hydroxide, 30%
Chlorinated Water, 100ppm
Citric Acid, 10%

Rating

C
NR
NR
R
R
R

Citric Acid, 20%	R
Citric Acid, 50%	R
Coconut Oil, 250°F	R
Coconut Oil, RT	R
Fuel Oil/Diesel Fuel	C
Hydrochloric Acid, 10%	R
Hydrochloric Acid, 20%	C
Hydrochloric Acid, 35%	C
Hydrogen Peroxide, 30%	R
Hydrogen Peroxide, 50%	R
Isopropyl Alcohol	R
Jet Fuel	C
Latic Acid, 88%	C
Motor Oil	C
Nitric Acid, 10%	NR
Olive Oil, 250°F	R
Olive Oil, RT	R
Propylene Glycol	C
Skydrol	C
Sodium Hydroxide, 25%	R
Sodium Hydroxide, 50%	R
Sodium Hypochlorite, 15%	R
Sodium Hypochlorite, 50%	R
Sodium Hypochlorite, 7.5%	R
Sulfuric Acid, 10%	R
Sulfuric Acid, 50%	C
Sulfuric Acid, 75%	NR
Sunflower Oil, 250°F	R
Sunflower Oil, RT	R
Transmission Fluid	C
Urine	R
Vinegar	C
Xylene	C

Warranty

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in application considered by us as suitable for this product. This warranty is in lieu of any and all other warranties, expressed or implied, and in no case will Pecora be liable for incidental or consequential damages.

Filing Systems

- CSI Master Format Designation: -071800 Traffic Coatings

