



# VersaProof Primer EWB™

## Waterborne Epoxy Primer Technical Data Sheet

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### Selection and Specification Data

#### DESCRIPTION:

**VersaProof Primer EWB** is a zero VOC, two-component, waterborne epoxy primer. **VersaProof Primer EWB** is a penetrating primer/sealer, uniquely formulated to reduce outgassing and improve adhesion to substrates with typically higher moisture content such as plywood and lumber. **VersaProof Primer EWB** is ideal for plywood and cement cover boards over insulating foam board due to the lack of solvent which may damage the foam.

**VersaProof Primer EWB** may be applied at temperatures greater than 40° F by airless or air-assisted spraying, brush, roller, or squeegee. **VersaProof Primer EWB** may be used with all **VersaProof** rapid curing sealants and coatings for interior and exterior applications.

#### COVERAGE RATES:

**VersaProof Primer EWB** is designed for a variety of substrates. Application method and substrate roughness, profile, and porosity will affect coverage rates. Consult VersaFlex Technical Services for substrate limitations.

- Concrete and Masonry: 100-200 ft<sup>2</sup> per gallon
- Cement Board: 100-200 ft<sup>2</sup> per gallon
- Plywood and Lumber: 100-200 ft<sup>2</sup> per gallon

#### FEATURES:

- Improves adhesion to a variety of substrates
- Easy to use
- Ideal for substrates with moisture vapor emission rates greater than 3 lbs./1,000 ft<sup>2</sup>/24 hours and less than 5 lbs./1,000 ft<sup>2</sup>/24 hours when tested per ASTM F1869
- Zero VOC

#### TECHNICAL PROPERTIES:

Description	Method	Result
Solids Content (as sold)		100%
Mix Ratio by Volume (with potable water)		1:1:2
Adhesion to Concrete <sup>1</sup>	ASTM D7234	>200 psi
Hardness (Shore D)	ASTM D2240	70
Working Time <sup>2</sup>		45 min.
Recoat Window <sup>3</sup>		48 hr.

The value ranges stated in this Technical Data Sheet are based on system processing under controlled laboratory conditions. Equipment configuration and/or field application conditions may produce variances in the final system values.

#### Footnotes

1. As Sold
2. 25°C, Brookfield LVT Spindle No. 1, 60 rpm



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#### Substrate and Surface Preparation

##### GENERAL:

Prior to coating, the substrate must be prepared in a manner that provides a uniform, clean, sound, neutralized surface suitable for the specified coating. The substrate shall be free of all contaminants, such as oil, grease, rust, scale or deposits. The substrate shall be free of all dirt, dust, debris, and deleterious material. Coating performance is dependent on the degree of surface preparation. Refer to the Installation Guide for more information.

##### MAXIMUM MOISTURE CONTENT CONCRETE:

5% maximum as per ASTM F2160 or ASTM F2420

##### CONCRETE & MASONRY:

Reference SSPC-SP 13/NACE No. 6 Surface Preparation of Concrete. Minimum surface profile equivalent to ICRI CSP3 to CSP5 in accordance with ICRI Technical Guideline No. 310.2R-2013.

##### CEMENT COVER BOARD:

Ensure substrate is clean, sound, dry, and free of any dirt, dust, debris, contamination or deleterious material.

##### WOOD AND LUMBER:

Ensure substrate is clean, sound, dry, and free of any dirt, dust, debris, contamination or deleterious material. Particular care should be taken when coating over treated wood products. Only install over kiln-dried, or air-dried treated wood.

##### OTHER SUBSTRATES:

Refer to the Installation Guide or contact VersaFlex Technical Services for more information.

#### Mixing, Thinning, Pre-Warming

##### COMPONENTS & MIX RATIO:

- Mix ratio is 1:1:2 by volume
- Combine and mix part A and B prior to diluting with potable water
- Measure each component using metered buckets
- Drill mix at low speed for 3 minutes
- Properly mixed material will be a uniform color without light or dark spots

##### THINNING:

- Reduce by 50% with potable water.

##### PRE-WARMING:

A and B components should be warmed to a minimum of 60°F prior to mixing.



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#### Application and Equipment Guidelines

<p><b>GENERAL:</b></p> <p><b>VersaProof Primer EWB</b> can be installed by airless sprayer, roller, brush, broom or squeegee. Install at temperatures greater than 40°F. Application methods should be adjusted based on surface profile and roughness. Additional coats may be needed based on material absorption and substrate porosity. Avoid pooling or puddling.</p> <p>When working on horizontal surfaces pouring the batch out onto the substrate will extend the working time and improve penetration into porous substrates.</p>	<p><b>AIRLESS SPRAYER:</b></p> <p>Follow all mixing and thinning instructions. Monitor batch temperature and viscosity. Longer dwell time in mass will reduce pot life and working times. Apply evenly at the recommended coverage rate based on substrate. A backroll or broom is still required to ensure proper coverage and absorption.</p> <p><b>HAND MIX:</b></p> <p>Follow all mixing and thinning instructions. Detail work should be done with a roller or brush. Larger areas are more easily covered using a broom or soft silicone or foam squeegee.</p>
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#### Application and Service Conditions

<p><b>ENVIRONMENTAL &amp; SUBSTRATE CONDITIONS:</b></p> <p>Material and equipment temperatures must be kept at 60°F or above. Lower substrate and ambient temperatures will reduce the cure time.</p> <p>Substrate temperatures must be greater than 40°F and humidity below 90%.</p> <p>The substrate must be 5°F above the dew point and rising before application of coating materials.</p> <p>Refer to the Installation Guide for more information.</p>	<p><b>LIMITATIONS:</b></p> <p><b>VersaProof Primer EWB</b> is not designed as an exposed finished coating system. Prolonged exposure to UV will degrade the primer.</p>
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#### Curing Schedule, Re-Coat Windows, and Top Coats

<p><b>CURE TIME:</b></p> <p>Tack free in 1 hour and dry-hard in ~4 hours at 72°F. Thin film set time varies with the substrate temperature and application thickness.</p> <p><b>TOP COATING:</b></p> <p>Before recoating; inspect, clean and dry surface thoroughly to remove all contamination, including amine blush or condensation. If the recoat/topcoat time is missed, abrade and clean surfaces prior to recoating.</p>	<p><b>RE-COAT TIME:</b></p> <p>This product may be recoated with itself as soon as it becomes tacky but does not transfer to the finger. Minimum topcoat time is when it cures to a dry-through state, generally 1 - 2 hours at 72°F substrate temperature. Maximum recoat/topcoat time is 72 hours at 72°F substrate temperature; higher temperatures will shorten these windows.</p>
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#### Cleanup and Safety

##### CLEANUP:

To clean tools, use soap and water. For clean-up of part A only, use acetone, MEK or xylene. To clean skin, wash immediately and thoroughly with soap and water. Refer to the Safety Data Sheet for additional information on health and safety.

Cured product may be disposed of without restriction. Product containers that are “drip free” may be disposed of according to local, state, and federal laws.

##### SAFETY:

SDS's are available on the website, ([www.versaflex.com](http://www.versaflex.com)) or upon request. Consult the Safety Data Sheet for this product concerning health and safety information before using. Strictly follow all notices on the Safety Data Sheet and container label. If you do not fully understand the notices and procedures provided on the SDS or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. Keep uncured product away from children at all times.

#### Packaging, Handling, and Storage

##### PACKAGING:

Available in pints (1-quart kit) and one gallon pails (2-gallon kit). Kits are supplied in the correct proportions of A & B; these two components must be mixed together before use.

##### SHELF LIFE AND STORAGE:

One year from date of shipment, in original, unopened factory containers, stored in a sheltered area between 60°F - 80°F. Seal tightly after use to prevent Introduction of moisture laden air. Store open 'A' side with a nitrogen cap after each use.

#### Warranty

**Limited Warranty.** Company warrants its goods to be free of manufacturing defects. Goods manufactured by Company will comply with all applicable federal, state and local laws and regulations. Company makes no warranty as to any parts or equipment manufactured by others. Customer shall look solely and only to the manufacturer of such parts or equipment with respect to any warranty claims. Company hereby assigns to Customer the original manufacturer's warranties to all such equipment and parts, to the full extent permitted. THE AFORESAID IS THE EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. SPECIFICALLY, THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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