WBG250™ WATERBORNE
WBS252™ WATERBORNE
WATERBORNE URETHANE

USGBC LEED, EQ Credit 4:
Low-emitting VOC Compliant Materials

VersaFlex®
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PRODUCT DATA SHEET

1. PRODUCT DESCRIPTION

***VersaFlex* Waterborne Urethane** is a color stable, waterborne urethane used for coating or sealing. It may be applied directly to most substrates and may be used as a topcoat for existing coatings, including polyurea systems. **Waterborne Urethane** displays excellent UV weathering characteristics and is abrasion and chemical resistant. The product is to be applied in a thin film (5 mils or less). Apply in multiple applications when thicker applications are needed.

2. USES

***VersaFlex* Waterborne Urethane** may be used to overcoat other coating systems to either enhance gloss or to provide additional UV stability. It may be used as a thin mil stand-alone coating for concrete, non-ferrous metal, wood and other properly prepared substrates.

Ideal for Applications in:

- Any areas where a thin mil, abrasion resistant coating or sealer is required
- Food processing facilities
- Walkways, balconies & patios
- Kennels and other animal enclosures
- Graffiti resistant properties
- May be used with CrobeFlex® in hospitals and other institutional environments where anti-microbial protection is required

Advantages:

- No VOC's
- Non Toxic
- Easy to apply
- Low odor
- High gloss or semi-gloss formulations
- Superior color & gloss retention

3. PHYSICAL PROPERTIES

VOC	**0**
Solids Content	**62%**
Pot Life, *@77°F with recommended distilled water reduction*	**1 Hour**
Tack Free, *ASTM D1640*	**1 - 2 Hours**
Full Cure, *ASTM D1640*	**7 Days**
Tensile Strength (psi) *ASTM D638*	**4400 - 7200**
Tensile Elongation (%), *ASTM D638*	**3 - 5%**
Modulus of Elasticity (kpsi), *ASTM D638*	**175 - 300**
Tear Strength (lb/in), *ASTM D624*	**150 - 300**
Adhesion to Aluminum, *ASTM D3359*	**Class 5B**
Tabor Abrasion, mg wt loss (1000g, 1000 revs, H-18) *ASTM D4060*	**260**
Tabor Abrasion, mg wt loss (1000g, 1000 revs, CS-17) *ASTM D4060*	**25**

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

4. PACKAGING

- **Four Gallon Kit:** 1 gallon of 'A' side and 3 gallons of 'B' side (pigmented)
- **Three Gallon Kit:** 1 gallon of 'A' side and 2 gallons of 'B' side (unpigmented)
- **One Gallon Kit:** 1 quart of 'A' side and 3 quarts of 'B' side (pigmented)
- **.75 Gallon Kit:** 1 quart of 'A' side and 2 quarts of 'B' side (unpigmented)

5. MIXING

FOR CLEAR MATERIAL:

- Drill mix Part 'A' with Part 'B' for 3 to 5 minutes. Gradually add in and mix the desired volume of distilled water to the combined 'A' & 'B' mixture to achieve a workable viscosity. Mix thoroughly. Mixed material is white in color but dries clear.

FOR PIGMENTED MATERIAL:

- Drill mix Part 'A' with Part 'B' for 3 to 5 minutes. Gradually add in and mix the desired volume of distilled water to the combined 'A' & 'B' mixture to achieve a workable viscosity. Mix thoroughly.
- It is recommended that distilled water be used when lowering product viscosity. If available tap water is used, contaminants may affect the final desired color.
- Latex paint shall not be added to the system.
- Overall pot life is dependent upon temperature of distilled water that is added and ambient temperature of the environment.

6. COLOR

COLORS: *Clear or pigmented.* **WBS 252** cannot be pigmented or have CrobeFlex added. For optimal durability, pigmented films should be top-coated with clear. Consult ColorFlex chart(s) at www.versaflex.com.

7. APPLICATION

Surface Preparation: Surface should be clean, dry and sound. Clean substrate of oils, grease and other contaminants. Curing/sealing agents must be removed before application.

Application Recommendations: Waterborne Urethane may be applied by airless spray, hopper gun, brush or roller. Expect longer dry times between coats if multiple applications made. Follow recoat window of 4 hours. Apply at recommended spread rate listed below. For moderate to heavy duty use applications, two coats are recommended, followed by waiting 24 - 48 hours before being placed back into service. Not to be used for constant immersion environments.

Approximate Spread Rate per Gallon

Added distilled water %	Wet Film Thickness	Dry Film Thickness	Sq Ft Spread Rate
20%	5 mil	3 mil	275
30%	5 mil	2 - 2.5 mil	255
50%	5 mil	2 mil	220

Application Temperature: Surface & ambient temperatures must be 40°F and rising. Do not apply to frozen concrete or high moisture content substrates, as this will affect coating adhesion and long term performance. Low temperature applications will extend drying time.

8. TRANSPORTATION & SHELF LIFE

This material is sensitive to cold temperatures. Material shall be maintained above 45°F (7°C) during transport for material preservation. Shelf life is one year from date of shipment, in original, unopened factory containers, under normal storage conditions of 60°F to 95°F (18°-36°C).

9. SAFETY

Review SDS at www.versaflex.com. Basic safety for personal protection is:

- Long sleeve overalls or disposable Tyvek overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Rubber or leather boots
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of reach of children

10. TECHNICAL SERVICES

Sales and Customer Support: (913) 321-9000.

11. WARRANTY

During a period of one-year from date of shipping, VersaFlex Incorporated will refund the price of or replace, at its election, product it finds to be defectively manufactured, provided the product has been stored and used properly. Except as expressly stated herein, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.