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Product Data Sheet

AquaVers 201 **ANSI/NSF 61.5 Approved** **Polyaspartic Polyurea**

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

Product Description- *VersaFlex AquaVers 201* is a 100% solids, aliphatic polyurea. **AquaVers 201** is ANSI/NSF 61.5 barrier material potable water approved. It may be used as a stand-alone coating. **AquaVers 201** is extremely color stable and displays excellent UV weathering characteristics. **AquaVers 201** can be applied in temperatures ranging from 0°F to 200°F. When fully cured, **AquaVers 201** will produce a highly abrasion resistant, high-gloss, smooth finish. **AquaVers 201** is ideal for small, hand applied applications on concrete or metal substrates. **AquaVers 201** produces an extremely tough film at any thickness. **AquaVers 201** may be applied in all positions to any suitably prepared substrate.

Uses- **AquaVers 201** adheres well to several substrates including concrete, steel, and plastic. The high tensile strength of the coating allows this product to better withstand the abuse of industrial equipment, steel-wheeled carts, and forklifts. The excellent chemical resistance is well suited for many harsh applications.

Ideal for Applications In-

- Potable Water Systems

Advantages-

- Fast Cure, **100% Solids, No VOC's**
- Low Moisture Sensitivity
- High Tensile Strength
- Color Stable, Excellent UV Stability
- Adheres well to Most Substrates
- Cures from 0° F to 200° F
- High Gloss Finish
- USDA and FSIS Approved

Physical Properties-

Cured Film Properties	Test Method	Typical Value
VOC Content	ASTM D3960	Zero
Shore Hardness	ASTM D2240	78D
Elongation	ASTM D638	15%
Tensile Strength, psi	ASTM D638	3850
Tear Strength, pli, Die C	ASTM D624	625
Taber abrasion, mg. Loss, CS-17	ASTM D4060	66.8
Gloss, 60° spec.	ASTM D523	90+
Impact, direct, reverse	ASTM D2794	60,10
Working Time (77° F, RH 54%)		15-20 minutes
Tack Free		35-45 minutes
Return to Use		16-24 hours

Chemical Resistance-

ASTM D3912 - modified 21 day immersion exposure			
The information in this chart is intended only as a guide. This information has been compiled from various sources believed to be reliable. To verify compatibility or suitability of this product in specific applications, the product should be tested under the specific service conditions. The ratings are for resistance at 77° F unless otherwise noted. Recommended Conditional means there will be some effect: swelling, discoloration, cracking. Wash down within one hour of spillage to avoid effects.			
Recommended	R		
Recommended/Conditional	RC		
Not Recommended	NR		
<u>Test Media:</u>	<u>Result:</u>	<u>Test Media:</u>	<u>Result:</u>
Acetic Acid, 100%	NR	Motor Oil	R
Acetone	RC	MTBE	RC
Ammonium Hydroxide, 20%	R	MTBE (5%)/gasoline	RC
Antifreeze/Water	RC	Muriatic Acid (10% HCL)	R
Brake Fluid (DOT 3)	RC	NaCl (10%)/water	R
Clorox 10%/water	RC	Phosphoric Acid (10%)	R
Diesel Fuel	R	Potassium Hydroxide (10%)	R
Gasoline	R	Skydrol	RC
Hydrochloric Acid (10%)	RC	Sodium Hydroxide (50%)	R
Hydrofluoric Acid (10%)	RC	Sodium Bicarbonate	R
Hydraulic Fluid	RC	Sugar/Water	R
Isopropyl Alcohol	R	Sulfuric Acid (10%)	R
Lactic Acid	R	Sulfuric Acid (50%)	RC
MEK	RC	Toluene	R
Methanol	RC	Vinegar (5%)/water	R
		Water (180° F)	R

Limitations- Requires dry substrate. Consult **VersaFlex**.

Coverage Rates-

Theoretical Square Feet Per Gallon

Mils	10	15	50	60	80	100	125
	160	107	32	27	20	16	13

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

Packaging-

- **3 Gallon Kit:** One gallon of 'A' side and 2 gallons of 'B' side. **Color Packs included if required.
- Larger Kits Available, Consult **VersaFlex**
- **AquaVers 201** is packaged in 3 gal kits or 55 gallon drums.- Containers filled by weight, volume is closely approximate.

Mixing- Mix part A with part B. Add Acetone thinner to A & B mix, if required. Add color pigment after A & B & thinner are thoroughly mixed. Mix until color is homogeneous.

Colors- Clear. Custom pigmentation on request. Consult **VersaFlex**.

Shelf Life- One year, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F.

Clean Up- Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

Safety- Read Material Safety Data Sheets provided with all shipments. Additional copies are available upon request from **VersaFlex** or your local dealer.

Basic safety for personal protection is:

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

Preparation-

- This product requires a dry substrate.
- Priming is not required when overcoating aromatic polyurea. Over coat within 4 hours.
- Concrete substrates should be clean, sound, and dry. Prime concrete less than 30 days old with **QuickMender** or **VF 20**. Metal substrates should have a 3-5 mil blast profile and should be primed with **PW-1** applied at 500 square feet per gallon.

Installation- AquaVers 201 adheres well to sound substrates including concrete, steel, and wood. All surfaces should be free of loose particles, rust, voids and spalls. It is recommended that this product be applied in a multi-directional (north-south, east- west) motion to ensure proper coating thickness. Chloride levels should be checked prior to application. **AquaVers 201** should be roller or squeegee applied up to 20 mils thickness per coat. There is no thickness limitation for **AquaVers 201**; however, **AquaVers 201** should be applied in 5–10 mil coats for maximum leveling and air release.

- It is recommended to wipe steel surfaces with acetone or M.E.K. prior to application of **AquaVers 201**. This will remove moisture that may have accumulated on the surface after sandblasting.
- An 80% to 100% solids (non-glossy) epoxy, solvent-based isocyanate or water dispersible isocyanate (for concrete only) are acceptable primers for **AquaVers 201**. **Note:** Some epoxy primers require the use of MEK as a wipe-down solvent (due to the build-up of active hydrogen or amine blush on the surface) prior to the application of **AquaVers 201**.

TOP-COATING:

AquaVers 201 may be top-coated after it has become tack free.

REPAIRS & MAINTENANCE:

Simply brushing on **AquaVers 201** can make small repairs to the coating. This material can be brushed on the surface after light scuffing.

Technical Services-Sales and Customer Support (913) 321-9000

Warranty- **VersaFlex Incorporated** will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, 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.