



PolyVers International
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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- *PolyVers AquaVers 201* is a 100% solids, color stable aliphatic polyurea coating. **AquaVers 201** may be applied directly to most substrates and may be used as a topcoat for existing epoxy, polyurethane, or polyurea. This coating is extremely color stable and displays excellent UV weathering characteristics. **AquaVers 201** can be applied in temperatures as low as 20° F. When fully cured, **AquaVers 201** will produce a highly abrasion resistant, high-gloss, smooth finish.

Uses- **AquaVers 201** adheres well to most substrates including concrete, steel, wood and plastic. The high tensile strength of the coating is able to 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-

- Potable water approved in accordance with ANSI/NSF 61.5 Barrier Material
- Fast Cure, 100% Solids, No VOC's
- High Tensile Strength
- Color Stable, Excellent UV Stability
- Adheres well to Most Substrates
- Low Odor
- Cures as low as 20° F
- High Gloss Finish
- USDA and FSIS Acceptable
- Adds New Life to Epoxy Floors
- Conforms to SSPC-Paint 39, Type 2

Physical Properties-

| <u>Property</u> | <u>Test Method</u> | <u>Typical Value</u> |
|--|---|----------------------|
| VOC | Theoretical | 0% |
| Solids Content | Theoretical | 100% |
| Pot Life | (@ 77° F w/ recommended acetone reduction). | 20 - 25 Minutes |
| Tack Free | ASTM D1640 | 1.5 - 2 Hours |
| Dry-to-Recoat | ASTM D1640 | 2 Hours |
| Maximum Recoat Window | ASTM D1640 | 4 Hours |
| Gloss (60°) | ASTM D523 | 80 |
| The following properties are typical after maintaining cured product at 70 – 77°F for 4 days: | | |
| Tensile Strength (psi) | ASTM D638 | 1850 - 2250 |
| Tensile Elongation (%) | ASTM D638 | 95 - 115 |
| Modulus of Elasticity (kpsi) | ASTM D638 | 70 - 75 |
| Tear Strength (lb/in) | ASTM D624 | 365 - 500 |
| Shore (D) Hardness | ASTM D2240 | 50 - 60 |
| Taber abrasion, mg wt loss (1000 g, 1000 revs, C-17) | ASTM D4060 | 15 - 20 |

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

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 **PolyVers**.
- **AquaVers 201** is packaged in 3 gal kits or 55 gallon drums.- Containers filled by weight, volume is closely approximate.

Mixing- AquaVers 201 is prepackaged in separate containers with adequate space in the Part 'B' container to accept the full contents of the Part 'A' container and provided color pigment.

Full Batch Mix: Mix part 'A' with part 'B' with 5 gal. stir stick by hand until thoroughly mixed. If required, 15% acetone by volume may be added to the mixed 'A' & 'B'.

If color is desired, add color pigment to the diluted 'A' & 'B' mixture until color is homogeneous. Do not drill mix.

For Partial Batch mixes, please consult Material Processing & Handling Information.

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

Shelf Life- One year, in original, unopened factory containers, under normal storage conditions of 13°C (55°F) to 35°C (95°F). Protect from freezing.

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 **PolyVers** 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.

Surface Preparation -

- Substrates should be clean, dry, and sound.
- Concrete that is less than 30 days old, should be primed with **QuickMender** or **PV 20**.
- Metal substrates should have a 3-5 mil blast profile (SP-10).
- Over coat within 4 hours.

Application - AquaVers 201 adheres well to sound substrates including concrete, steel, wood and plastic. All surfaces should be free of loose particles, rust, voids and spalls. It is recommended that the 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** may be applied up to 10 mils thickness per coat. Please review Material Processing & Handling Information for further details.

- It is recommended to wipe steel surfaces with acetone or denatured alcohol prior to application of **AquaVers 201**. This will remove moisture or dust that may have accumulated on the surface after sandblasting. **AquaVers 201** may be over coated after it has become tack free.

REPAIRS & MAINTENANCE:

Simply brushing on **AquaVers 201** can make small repairs to cuts in the coating. Material can be brushed on the surface after light scuffing or application of **PV TackCoat**.

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

Warranty- *PolyVers International* 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.