



PolyVers International
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Product Data Sheet

VersaGrout 100 Epoxy Coating & Concrete Restoration

Product Description- *PolyVers VersaGrout 100* is a versatile, two component, 100% solid, concrete coating and restoration system that provides an economical method for restoring and protecting degraded or damaged concrete.

Uses- *PolyVers VersaGrout 100* non-shrink properties make it very compatible with all concrete substrates; an ideal construction material for concrete restoration projects. It can also be employed to provide enhanced protection of new concrete.

Ideal for Applications In-

- Repair spalls and cracks
- Restore concrete integrity
- Repair bugholes in concrete
- Parging compound to smooth concrete and masonry surface
- Parking deck repair
- Added protection to new concrete

Advantages-

- Non-Shrink
- 100% solids
- Convenient 3:1 mix ratio by volume
- Can be blended with *PolyVers* supplied aggregate or locally supplied 20/40 mesh aggregate
- High compressive and flexural strength
- Good chemical resistance

Physical Properties-

Mix Ratio	Volume	3 Part A : 1 Part B
Solids Content	Weight	100%
Compressive Strength	ASTM C-579	6000 - 7000 psi
Tensile Strength	ASTM C-307	4000 - 5000 psi
Flexural Strength	ASTM C-580	6000 - 7000 psi
Density		120 lbs/cu ft
Working Time	22°C (72°F) – 24°C (75°F)	20 - 30 minutes
Cure Time (Floor Traffic)	22°C (72°F) – 24°C (75°F)	8 -12 hours
Chemical Service	22°C (72°F) – 24°C (75°F)	24-36 hours

Application Guidelines-

TEMPERATURE CONSIDERATIONS

1. Throughout the application process the surface temperature should remain above 10°C (50°F).
2. Store all materials (Parts A & B and aggregate) at 16°C (60°F) – 27°C (80°F) for at least 24 hours prior to use.

SURFACE PREPARATION OF CONCRETE

1. Surface must be free of dirt, dust, oil, grease, chemical and other contaminants immediately prior to applying **VersaGrout 100**.
2. New concrete should be cured a minimum of 28 days.
3. Concrete must be structurally sound and must not contain any accelerators or curing compounds.
4. Remove all oil and grease.
5. Remove all surface laitance and expose sound concrete. We recommend abrasive blasting to do this. However, other methods, such as acid etching and neutralizing, may be used.
6. In general, any existing coating should be completely removed.
7. Honeycomb and form voids on vertical surfaces may be filled using **VersaGrout 100**.

PRIMING

When **VersaGrout 100** is employed for restoration work, a primer is generally not required. However, when the system is applied as a highly aggregate filled restoration product, the use of a primer such as PV 30, PW-1 or PV 20 is required. This step is necessary to achieve adhesion between the “dry” substrate and the aggregate filled epoxy being applied.

PolyVers PV 31 should be used for cooler temperatures 10°C (50°F) – 27°C (80°F) or **PolyVers** PV 30 for temperatures above 27°C (80°F). Refer to the respective Data Sheets for application instructions.

MIXING AND APPLICATION

Required Tools

5 Gallon Bucket (for mixing), 2 containers (for measuring aggregate), Jiffy type mixer, pound scale, trowel

Instructions for VersaGrout 100 Coating

1. Pre-measure 25-30 lbs of aggregate into one container and 15-20 lbs of aggregate into another container.
2. Combine the complete units of A and B to a 5 gallon bucket and mix with a jiffy type mixer.
3. Immediately add 25-30 pounds of pre-measured weight of aggregate.
4. Mix until all particles are wet and composition is uniform.
5. Pour mixture onto substrate and spread with trowel to desired thickness.
6. Within 10 - 15 minutes broadcast to excess using a pre-measured 15-20 lbs of aggregate or until desired profile is achieved.
7. Double measurements if using 40 square foot kit.

Instructions for VersaGrout 100 Restoration System

1. Pre-measure 40 lbs and 10 lbs of aggregate into separate containers.
2. Combine complete units of A and B into a 5 gallon bucket and mix with a jiffy type mixer.
3. Add 40 lbs of aggregate and mix until all particles are wet and composition is uniform.
4. Slowly add the remaining 10 lbs of aggregate until desired thickness is achieved.
5. Be aware that the entire provided 50 pounds of aggregate may not be required as viscosity will vary with temperature.
6. Double measurements if using 40 square foot kit

Packaging-

VersaGrout 100 is available in 20, 40, and 100 square foot kits. Aggregate is available from the manufacturer in 50 pound bags. Additionally, clean, bagged 20/40 mesh sand can be purchased locally by applicator. Theoretically coverage is as follows:

Kit Size	¼" Thickness	⅛" Thickness
20 sq ft kit	20 square feet	40 square feet
40 sq ft kit	40 square feet	80 square feet

Coverage rates will be affected by the condition of the surface being coated and skill of the applicator.

Kit Size	Part A Container Size*	Part B Container Size*	Aggregate (Optional)
20 sq ft kit	1 Gallon Can	1 Quart Can	50 pound bag
40 sq ft kit	2 Gallon Can	1 Gallon Cans	2 50 pound bags

*Containers are packaged at ratio for a 20 sq ft kit and will not arrive full.

Shelf Life- Keep **VersaGrout 100** components tightly sealed in their original containers until ready for use. Store components A & B and aggregate between 16°C (60°F) –27°C (80°F). Properly stored **VersaGrout 100** has a shelf life of one year.

Clean Up- **VersaGrout 100** may be removed from tools and equipment using xylene or MEK.

Safety- Avoid contact with eyes and skin. Do not ingest or inhale

When working with **VersaGrout 100** always wear chemical goggles, rubber gloves, and appropriate work clothes.

Prolonged or repeated exposure to **VersaGrout 100** may cause skin irritation or allergic reactions.

Refer to the MSDS regarding individual components, additional safety precautions, and proper clean up procedures.

Preparation and Installation- Regard **PolyVers** specifications for Spray Polyurea, for detailed preparation and installation procedures. Substrate priming is not required on all metals, consult **VersaFlex** for recommendations.

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.