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# Product Data Sheet

## **PV 120SL**

### **High Build Epoxy Floor Coating System**

**Product Description-** PV 120SL is a High Build, 100% solids epoxy coating system providing a high gloss finish with very good chemical and abrasion resistance. The **PV 120SL** can be used as a primer/sealer for concrete surfaces due to its low viscosity and excellent adhesion, thus providing a foundation for the next coating steps.

For a smooth high gloss finish a second coat of **PV 120SL** is applied after the first coat has set to a slight "tack" condition. For an anti-slip surface broadcast aggregate into the wet film of the second coat.

**Uses -** Applied as a two coat system to properly prepared concrete surfaces, the **PV 120SL** provides a high build epoxy flooring which has excellent gloss and durability. Final system thickness ranges between 15-25 mils depending on the condition of the concrete surface.

First coat is applied at a theoretical coverage rate of 140-160 square feet per gallon to seal the concrete surface, thus greatly reducing the air release from the concrete. The second coat is then applied after the first coat has a cure time of 4-6 hours at ambient temperatures in the 21°C (70°F) to 27°C (80°F) degree range. A portion of the mixed coating material may be mixed with silica sand to produce a slurry which can be used for patching or smoothing small areas of degraded concrete. For larger areas of degraded or damaged concrete, repairs should be made using Versa Grout 100 or Versa Grout 200 concrete restoration systems.

**Substrates-** PV 120SL can be applied over properly prepared concrete, steel and other surfaces. Contact **PolyVers** technical service for recommendations on other surfaces.

**Priming-** *Applied over smooth, nonporous concrete, the PV 120SL is self priming. Porous concrete surfaces generally require use of a primer to reduce out gassing. PV 30 primer/sealer works very good at mild and upper temperatures or PV 31 can be used at lower temperatures.*

## Typical Properties-

Mix Ratio	Volume	2 Part A: 1 Part B
Solids Content	Weight	100%
Mixed Viscosity	Brookfield	1000-1500 CPS
Film Hardness	Shore D	71-72
Tensile Strength	ASTM C-307	3500-4000 psi
Tensile Elongation	ASTM C-307	6-10%
Adhesion (cured concrete)	Elcometer	>300 psi
Working Time	21°C (70°F) – 27°C (80°F)	30-45 minutes
Cure Time (Floor Traffic)	21°C (70°F) – 27°C (80°F)	8-12 Hours
Chemical Service	21°C (70°F) – 27°C (80°F)	36-48 Hours
Abrasion Resistance	ASTM D4060-01	20-30 mg CS-17 Wheel 1000 g Weight 1000 cycles

## Application Guidelines-

### TEMPERATURE CONSIDERATIONS

1. Throughout the application process the surface temperature should remain above 10°C (50°F).
2. Store all materials (Part 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 **PV 120SL** or Primer.
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. All voids and depressions up to ¼ inch deep can be filled with a **PV 120SL**/silica slurry. Larger voids require use of either Versa Grout 100 or 200.

## Application Equipment-

Primers can be applied by either brush or roller and choice basically depends on size of area to be primed. Application of **PV 120SL** topcoat can be made with a short nap, phenolic core roller, a good quality brush, or a notched squeegee. A spike roller used within 5-10 minutes after application of the topcoat will greatly improve removal of entrapped air.

**Mixing- PV 120SL** – At a slow speed mix part A with a Jiffy type mixer until uniform, then add part B and continue mixing at slow speed while keeping the blade far below the surface so as to minimize whipping air into the product. Since the mixed material is moderately reactive, do not mix more than 2-3 minutes and mix only the quantity of material that can be applied within the pot life window.

**Colors-** Standard color is light gray. Other colors available upon 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.

#### **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.