

# Planiseal SLV

Super Low-Viscosity, Epoxy Healer/Sealer

## DESCRIPTION

*Planiseal*® SLV is a solvent-free, two-component, 100%-solids, low-modulus, super low-viscosity, epoxy healer/sealer designed to penetrate into hairline cracks of new or worn cracked concrete surfaces.

## FEATURES AND BENEFITS

- Super low viscosity that penetrates and fills the finest hairline cracks and small voids
- Limits the intrusion of moisture and chlorides
- Solvent-free, low-odor and low-modulus
- Moisture-insensitive for sealing damp cracks

## WHERE TO USE

- Elevated exterior concrete surfaces
- Bridges
- Pedestrian walkways, parking decks and other horizontal surfaces
- Use as a primer before application of an ASTM C881 Type III epoxy.

## INDUSTRY APPROVALS AND APPROVALS

- Available to be used in USDA- and CFIA-inspected facilities

## SURFACE PREPARATION

- Surface must be dry.
- Repair surface spalls with a suitable MAPEI repair product before the application of *Planiseal* SLV.

- Thoroughly clean the surface of substances that could affect the bond, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, form-release agents, laitance, loose toppings, foreign substances and any other residues that may interfere with proper penetration and bonding.
- To enhance the proper penetration of *Planiseal SLV*, the surface of the substrate must be mechanically prepared by engineer-approved methods in accordance with ICRI Guideline 310.2R-2013 to obtain a minimum concrete surface profile (CSP) of #2 to #4.

## MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Precondition material to 65°F to 80°F (18°C to 26°C) before use.
2. Premix Part A (resin) and Part B (hardener) independently for 1 minute with a low-speed drill and appropriate mixing paddle.
3. Combine Part B into Part A and mix with a low-speed drill for 3 minutes, taking precaution to not aerate the mixture.
4. Mix only the quantity that can be used within its gel time.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Immediately after mixing Parts A and B together, flood-coat *Planiseal SLV* onto the concrete.
2. Distribute *Planiseal SLV* evenly by squeegee at a rate of 100 to 200 sq. ft. per U.S. gal. (2.45 to 4.91 m<sup>2</sup> per L).
3. Keeping a wet edge, continue to flood *Planiseal SLV* into cracks until refusal.
4. Before *Planiseal SLV* becomes tacky, remove all excess material with a squeegee (on a smooth surface) or a broom (on broom-textured or tined surface). Surface should appear damp but with no film buildup or ponding.
5. Broadcast oven-dried silica sand to refusal (typically 20 to 30 mesh) at a rate of 0.2 to 0.8 lbs. per sq. yd. (0.11 to 0.43 kg per m<sup>2</sup>) over all areas where *Planiseal SLV* is applied.
6. If *Planiseal SLV* is used as a primer, an ASTM C881 Type III epoxy must be applied between 3 hours and 24 hours after application of *Planiseal SLV*.
7. After curing and before opening to traffic, remove all excess sand from the cured *Planiseal SLV*.

## CLEANUP

- Immediately after applying, clean tools with a suitable solvent such as Xylene. Once cured, *Planiseal SLV* can only be removed mechanically.

## LIMITATIONS

- Substrate application temperature must be between 55°F and 95°F (13°C and 35°C).
- *Planiseal SLV* is not UV-stable and may discolor when exposed to sunlight.
- Do not apply over curing compounds.
- Due to the super low viscosity of this material, it may penetrate through the entire depth of a crack. Precautions should be taken to protect areas below the deck, by sealing the bottom part with a temporary

caulking that can be removed afterwards.

- *Planiseal SLV* must be sand-seeded when left exposed.
- Mix with silica sand for filling cracks with a width of 1/4" (6 mm) or more.
- Do not mix more material than can be applied within the stated working time.
- The exposed surface is sacrificial if exposed to traffic and temperature variation.

### Product Performance Properties

| Laboratory Tests                         | Results               |
|--|-----------------------|
| VOCs (Rule #1168 of California's SCAQMD) | 0 g per L             |
| Gel time (200 grams) at 73°F (23°C)      | 60 minutes            |
| Viscosity at 73°F (23°C) – ASTM D2196    | 100 to 120 cps        |
| Solids content – ASTM D1644              | 100%                  |
| Tensile strength – ASTM D638             |                       |
| 7 days                                   | > 1,000 psi (6.9 MPa) |
| Tensile elongation – ASTM D638           |                       |
| 7 days                                   | > 60.0%               |
| Bond strength – ASTM C882                |                       |
| 14 days                                  | > 500 psi (3.4 MPa)   |

### Shelf Life and Application Properties

|  |  |
|--|--|
|  |  |
| Shelf life                               | 2 years in original unopened container. Store at 50°F to 80°F (10°C to 26°C).                            |
| Mixing ratio by volume (Part A : Part B) | 2:1  |
| Tack-free time at 73°F (23°C)            | 3 to 5 hours   |
| Curing time                              | 6 hours at a substrate temperature of 72°F (22°C)<br>2.5 hours at a substrate temperature of 90°F (32°C) |

### CSI Division Classification

|                  |          |
|------------------|----------|
|                  |          |
| Traffic Coatings | 07 18 00 |

Packaging

|   |
|---|
| Kit: 3 U.S. gals. (11.4 L), containing 2 Part A units and 1 Part B unit |
| Part A: 5 U.S. gals. (18.9 L)   |
| Part B: 5 U.S. gals. (18.9 L)   |
| Part A: 55 U.S. gals. (208 L)   |
| Part B: 55 U.S. gals. (208 L)   |

Approximate Coverage\*

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|--|
| 100 to 200 sq. ft. per U.S. gal. (2.45 to 4.91 m <sup>2</sup> per L) |
|--|

*\* Coverage rate depends on profile and porosity of concrete.*

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI’s commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact [sustainability\\_USA@mapei.com](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

#### LEGAL NOTICE

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Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
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