



# Planiseal HG<sup>TM</sup>

**Clear, High-Gloss, 100%-Solids Epoxy Sealer**



## DESCRIPTION

*Planiseal HG* is a solvent-free, moisture-tolerant, 100%-solids, clear, high-gloss, two-component epoxy sealer suitable for sealing concrete, and concrete areas treated with skid-resistant *Planiseal Traffic Coat*.

## FEATURES AND BENEFITS

- High gloss enhances colors
- Superior resistance to yellowing caused by UV light exposure
- Enhances maintainability of *Planiseal Traffic Coat* installations
- Easy installation

## INDUSTRY STANDARDS AND APPROVALS

<u>LEED (Version 3.0) Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials* .....	Up to 2 points
IEQ Credit 4.2, Low-Emitting	
Materials – Paints & Coatings .....	1 point

\* Using this MAPEI product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

## WHERE TO USE

### For Professional Use

- Use on interior/exterior elevated concrete decks or balconies.
- Use on interior/exterior elevated concrete decks or balconies that have an application of skid-resistant *Planiseal Traffic Coat*.

## LIMITATIONS

- Use between the temperatures of 60°F and 95°F (16°C and 35°C).
- For temperature above 85°F (26°C), take appropriate precautions to keep material cool.
- No additional ingredients are required. Do not thin *Planiseal HG* with solvents.
- *Planiseal HG* is effectively impermeable once cured.
- Not for use across moving joints, or sealing joints or cracks subject to hydrostatic pressure
- Not for use on concrete with a moisture vapor emission rate (MVER) greater than 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m<sup>2</sup>) in 24 hours per ASTM F1869.
- For outside use (or in areas with direct sunlight), *Planiseal HG* will perform best over dark colors.

## SUITABLE SUBSTRATES

- Do not install over any substrates containing asbestos.
- Properly prepared concrete at least 28 days old, stable and free of standing water
- Suitable surfaces that have received an application of *Planiseal Traffic Coat*
- Surfaces that have received epoxy coatings
- Elevated concrete or concrete on grade with an MVER below 3 lbs. (1,36 kg) per ASTM F1869. Test before application.



## **SURFACE PREPARATION**

- Surface must be concrete at least 28 days old, sound, stable and free of standing water.
- Use the appropriate cleaning method (mop, vacuum, oil-free compressed air, etc.) to clean the surface, removing all contaminants, dust and debris.

## **MIXING**

Note: Choose all appropriate safety equipment before use. Refer to MSDS for more information.

1. Precondition material to between 65°F and 85°F (18°C and 20°C) before use.
2. Mechanically mix Part A with Part B at a 2:1 ratio by volume with "jiffy"-type mixer and low-speed variable drill at 300 rpm for at least 3 minutes. Mix only full units.

## **PRODUCT APPLICATION**

1. After mixing, immediately spread the material on the floor to maximize working time (do not leave material in the pail).
2. Apply *Planiseal HG* neat, using a 1/16" (1,5 mm) notched squeegee to spread the material.
3. Immediately back-roll the material with a lint-free roller to achieve the desired uniform final film thickness on the surface.
4. Allow to cure before opening to traffic.
5. Treat interior surfaces with a sacrificial wear coat (commercial floor wax). Maintain floor wax at all times to ensure floor is not subject to wear damage.

## **CLEANUP**

Uncured material can be removed with an appropriate solvent. Cured material can only be removed mechanically.

## Product Performance Properties

Laboratory Tests	Results
Mix ratio	2 : 1 (A : B) by volume
Brookfield viscosity RV3 at 20 rpm (ASTM D2393)	3,000 cps
VOCs (Rule #1168 of California's SCAQMD)	< 35 g/L

## Shelf Life and Application Properties

Shelf life	2 years in original unopened container. Store at between 40°F to 90°F (4°C to 32°C).
Gel time (ASTM D2471)	45 minutes
Tack-free time	Typically 6 hours
Full cure	48 hours at 73°F (23°C)
Time to vehicular traffic	72 hours

## CSI Division Classifications

Traffic Coatings	07 18 00
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## Packaging Combined parts equal 3 U.S. gals. (11,4 L)

Product code	Size/color
46661	Kit: 3 U.S. gals. (11,4 L)

## Approximate Product Coverage

Application thickness	Coverage
6 mils (0,15 mm)	120 to 140 sq. ft. per U.S. gal. (2,94 to 3,43 m <sup>2</sup> per L)

\* Coverage will vary depending on profile of surface, particularly the aggregate used in the Planiseal Traffic Coat.

## Chemical resistance

Planiseal HG is resistant to temporary exposure to the following chemicals. Avoid prolonged exposure to chemicals.

Acetic acid 20%	Ammonia 10%	Caustic soda 30%
Cement water	Citric acid	Detergents (e.g., liquid ajax)
Distilled water	Ethanol/water 60/40	Fuel oil (Empa)
Hydraulic fluids (Arcosafe-Skydrol)	Hydrogen peroxide 5%	Iron (III) chloride 1.35%
Iron (II) sulphate 35%	Javelle water (bleach) 14%	Lactic acid 20%
Motor oil	Sodium chloride solution	Sodium sulphite solution
Tartaric acid 20%	Toluene	Transmission fluid

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Refer to MAPEI's Material Safety Data Sheet (MSDS) for specific data related to VOCs, health and safety, and handling of product.

## STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **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.**

*We proudly support the following industry organizations:*



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**For the most current product and warranty data, visit [www.mapei.com](http://www.mapei.com).**

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