



# Planiprep MRS®

**Moisture-Resistant, High-Compressive-Strength Skimcoating Compound**



## DESCRIPTION

*Planiprep MRS* is an advanced, hydraulic-cement-based skimcoating compound designed for use under moisture-controlling membranes and adhesive systems. It is especially formulated for skimcoating and patching interior horizontal concrete surfaces with high moisture content or where environmental controls are not operational. *Planiprep MRS* has no moisture vapor emission rate (MVER) limitations and can be installed without testing on properly prepared concrete substrates.

## INDUSTRY STANDARDS AND APPROVALS

LEED v4 Points Contribution

LEED Points

Health Product Declaration (HPD)\* ..... Up to 2 points

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

## FEATURES AND BENEFITS

- Easy mixing and smooth application characteristics
- Not affected by high moisture conditions
- Can be placed before HVAC systems or interior finishes are installed
- High compression strength for use in heavy traffic conditions

## WHERE TO USE

- For fast-track leveling, smoothing and repairing of interior floors before installation of HVAC or interior finishes

- Used under moisture-controlling adhesive systems and epoxy moisture control barriers
- Interior residential (rental apartments, condominiums and homes)
- Interior commercial (office buildings, hotel rooms/hallways, restaurants and cafeterias)
- Interior heavy commercial (hotel lobbies, convention centers, airports, shopping malls, grocery stores and department stores)
- Interior institutional (hospitals, schools, universities, libraries and government buildings)

## LIMITATIONS

- Do not install over substrates containing asbestos.
- Use when the substrate temperature is between 40°F and 90°F (4°C and 32°C).
- For use only over concrete subfloors
- Do not use warm or hot water to mix with *Planiprep MRS*.
- Do not use in areas prone to hydrostatic pressure.
- Do not apply over standing water.

## SUITABLE SUBSTRATES

- Properly prepared, sound, surface-dry, dimensionally stable concrete at least 7 days old

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.



## **SURFACE PREPARATION**

- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Concrete substrate must have some open porosity, with an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of at least #1.

See MAPEI's "Surface Preparation Requirements" document in the Reference & Installation Guides section of the Floor Covering Installation Systems page on MAPEI's Website.

## **MIXING**

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

1. Per the mixing ratios below, pour the required amount of cool, clean potable water into a clean pail and add *Planiprep MRS* while slowly stirring.
2. Mix with a drill (at about 600 to 900 rpm) to a homogenous, lump-free consistency for 1 to 2 minutes. Do not overmix.
3. Do not mix more material than can be applied in up to 15 minutes, depending on temperature and humidity. Do not add more water to the mix than the maximum allowed in the mixing ratio.

## **PRODUCT APPLICATION**

Read all instructions thoroughly before installation.

1. Immediately after mixing, place *Planiprep MRS* onto the surface and work it in with a flat-edge steel trowel.
2. Trowel to the desired surface finish shortly after placement.

## **CURING AND PROTECTION**

- *Planiprep MRS* is self-curing. Do not use a damp-curing method, or curing or sealing compounds.
- Avoid walking on the installed surface for at least 1 to 2 hours after installation, depending upon temperature and humidity conditions.
- Do not expose *Planiprep MRS* to rolling dynamic loads, such as forklifts or scissor lifts, for at least 24 hours after installation.

## **CLEANUP**

- Wash hands and tools with water promptly before material hardens. Cured material must be mechanically removed.

**Product Performance Properties** at 73°F (23°C) and 50% relative humidity

Laboratory Tests	Results
pH	11 to 13
VOCs	0 g per L
Density	128 lbs. per cu. ft. (2,06 kg per L)
Compressive strength – ASTM C109 (modified)	
4 hours	> 1,740 psi (12 MPa)
28 days	> 5,600 psi (38,6 MPa)
Flexural strength – ASTM C348 (modified)	
28 days	≥ 1,160 psi (8 MPa)
Pullout strength – EN 13408	
28 days	> 550 psi (3,79 MPa)

**Shelf Life and Product Characteristics (before mixing)**

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area
Physical state	Powder
Color	Light gray
Application temperature range	40°F to 90°F (4°C to 32°C)
Application thickness	Featheredge to 1/4" (6 mm)
Mixing ratio of water	Per 10-lb. (4,54-kg) bag: 1.3 to 1.34 U.S. qts. (1,23 to 1,27 L) Per 25-lb. (11,3-kg) bag: 3.2 to 3.36 U.S. qts. (3,03 to 3,18 L)
Working time	< 15 minutes
Final set (for light foot traffic) at 1/4" (6 mm) thickness	1 to 2 hours
Time before installing moisture-controlling installation systems	2 hours
Time before installing non-moisture-sensitive floor coverings	6 hours
Time before installing moisture-sensitive floor coverings	24 hours

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

**Packaging**

Size
Bag: 10 lbs. (4,54 kg)
Bag: 25 lbs. (11,4 kg)

**Approximate Coverage\***

Size	Coverage
Per 10-lb. (4,54-kg) bag	0.16 cu. ft. (0,004 m <sup>3</sup> ), or 30 sq. ft. (2,79 m <sup>2</sup> ) at 1/16" (1,5 mm)
Per 25-lb. (11,3-kg) bag	0.4 cu. ft. (0,011 m <sup>3</sup> ), or 75 sq. ft. (6,97 m <sup>2</sup> ) at 1/16" (1,5 mm)

\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment, thickness applied and application methods used.

# Planiprep<sup>®</sup> MRS



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

## LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

[www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

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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