

Planicrete W

Flexible Setting Compound



DESCRIPTION

Planicrete® W is tremendously flexible and excellent for installing tile over well-supported and properly prepared steel substrates (such as ship decks, elevators, steel staircases and bank vaults). It is designed for setting most types of tile, including moisture-sensitive tile, natural stone and their agglomerates.

FEATURES AND BENEFITS

- Highly flexible
- For setting moisture-sensitive stone
- Excellent for steel substrates

INDUSTRY STANDARDS & APPROVALS

- ISO 13007: Classification R2

WHERE TO USE

- Most interior/exterior residential and commercial installations on floors and walls
- Installation of ceramic and porcelain tile, quarry tile, pavers, Saltillo tile, and most types of marble, granite and natural stone
- For setting most moisture-sensitive marbles, stones and their agglomerates

Note: Marble, granite and slate are products of nature made from a vast combination of minerals and chemicals that may cause the material to behave or react in a manner beyond our control. Therefore, determine the suitability of all the materials before proceeding with the installation and test material for possible staining and discoloration.

LIMITATIONS

- The temperature of the tilework, substrate and ambient temperature must be between 60°F and 90°F (16°C and 32°C) while spreading. This temperature should be maintained until *Planicrete W* has hardened sufficiently.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), or substrates containing asbestos. See the “Suitable Substrates” section below.
- Do not use when hydrostatic or severe moisture conditions exist.
- Do not use on exterior walls as a full continuous building facade.
- For installations of light-colored and translucent natural stone, a white mortar is recommended.
- Do not install directly over waterproofing, crack-isolation and sound-reduction membranes.

SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats
- Cement backer units (CBU) – see manufacturer’s installation guidelines
- Gypsum wallboard and plaster – interior walls in dry areas only (priming may be required). See the “Surface preparation requirements” reference guide in the Tile & Stone Installation Systems section of MAPEI’s Website.
- Plywood underlayments must be a Group 1 exterior-grade plywood CC-plugged or better, conforming to APA classification and U.S. Product Standard PS 1-95 or a “SELECT” or (SEL-TF) CANPLY classified exterior-grade plywood conforming to CSA-0121 standard for Douglas fir for direct-bond applications (interior, residential and light commercial floors and countertops in dry conditions only).
- Existing ceramic and porcelain tile, cement terrazzo, epoxy terrazzo, quarry tile and pavers (interior and dry conditions only)
- Properly prepared steel

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

SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- See the “Surface preparation requirements” reference guide in the Tile & Stone Installation Systems section of MAPEI’s Website.

MIXING

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

Parts A and B are packaged to exact quantity ratios for proper curing.

1. Pour all material out of the Part B liquid container into the Part A container. To improve flowability and texture, allow time for Part B material to flow completely out of the container. Always mix complete units. Do not add other materials to this mixture.
2. Using a low-speed mixing drill (at about 300 rpm), mix thoroughly until a homogenous paste consistency is obtained. Avoid prolonged mixing.
3. Use mixture within 1 hour.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Choose a typical notched trowel (see the "Approximate Coverage" chart below) with sufficient depth to achieve more than 80% mortar contact to both the tile and substrate for all interior applications, and more than 95% for exterior installations and wet applications. It may be necessary to back-butter tiles in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCNA Handbook guidelines.)
2. With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
3. Apply additional mortar, combing it in a single direction with the trowel's notched side.
4. Spread only as much mortar as can be tiled before product skins over. Open time can vary with jobsite conditions.
5. Tile and stone must be dry before setting them into the mortar.
6. Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
7. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines)

EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Method EJ171, or TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with mortar.

CLEANUP

- Use only water to clean tools and tile while the mortar is fresh.

PROTECTION

- Protect from traffic for 24 hours. Protect from heavy traffic for 7 days.
- Protect from frost and rain for 7 days.

ISO 13007 Classification

Classification Code	Test Characteristics	Classification Requirement
R2 (reaction resin adhesive, improved)	Shear adhesion strength	$\geq 2 \text{ N/mm}^2$
	Shear adhesion strength after water immersion	$\geq 2 \text{ N/mm}^2$
	Open time: tensile adhesion strength	$\geq 0.5 \text{ N/mm}^2$ after no less than 20 minutes
	Shear adhesion strength after thermal shock	$\geq 2 \text{ N/mm}^2$

Shelf Life and Application Properties*

at 73°F (23°C) and 50% relative humidity

Shelf life	2 years
Working time*	1 hour
Time before grouting	24 hours
VOC content (SCAQMD Rule 1168)	< 65 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	24 g per L

* Working time may vary based on jobsite conditions.

Packaging

Size
Kit: 1.8 U.S. gals. (6.81 L)

Approximate Coverage**

per 1.8 U.S. gals. (6.81 L)

Typical Trowel	Coverage
5/32" x 5/32" (4 x 4 mm), saw-tooth	60 to 65 sq. ft. (5.57 to 6.04 m ²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm), square-notch	25 to 35 sq. ft. (2.32 to 3.25 m ²)

** Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for tile and stone installation systems***

*** At www.mapei.com

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 (USA) or 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

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor 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. **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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For the most current product data and BEST-BACKEDSM warranty information,
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