



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 "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 façade.
- Do not use for installations subject to prolonged water immersion.
- Do not use for the installation of white, light-colored or translucent marble, for which 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
- APA Group 1 and CANPLY 0121 "Select" or "Select Tight Face" exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- Properly prepared 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 MAPEI's "Surface Preparation Requirements" document for tile and stone installation systems at www.mapei.com.

MIXING

Note: Choose all appropriate safety equipment before use. See the Safety Data Sheet (SDS) 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

1. Choose a typical notched trowel (see chart below) with sufficient depth to achieve > 80% mortar contact to both the tile and substrate for all interior applications, and > 95% for exterior installations, commercial floor 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 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 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

Clean tools and tile while 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	≥ 2 N/mm ²
	Shear adhesion strength after water immersion	≥ 2 N/mm ²
	Open time: tensile adhesion strength	≥ 0,5 N/mm ² after not less than 20 minutes
	Shear adhesion strength after thermal shock	≥ 2 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
VOCs (Rule #1168 of California's SCAQMD)	19 g/L

* Working time may vary based on jobsite condition.

Packaging

Size
Kit: 1.8 U.S. gal. (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) 	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) 	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.

Planicrete W



RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for tile and stone installation systems*

* At www.mapei.com

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).

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MAPEI Headquarters of North America

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) /
(954) 246-8888

Technical Services

1-800-992-6273 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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