

Topcem Pronto

Extended-Working-Time Screed Mortar



DESCRIPTION

Topcem™ Pronto is a single-component, extended-working-time screedable mortar.

FEATURES AND BENEFITS

- Greater than 60 minutes of working time
- Can be applied from 3/8" to 2" (10 mm to 5 cm)
- Easily placed by float or screed

WHERE TO USE

- Interior and exterior horizontal applications
- Use for sloping or flat repairs.
- Sidewalks, balconies and walkways

SUITABLE SUBSTRATES

- Properly prepared concrete at least 28 days old, stable and free of hydrostatic pressure

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

SURFACE PREPARATION

- All substrates must be structurally sound, stable and solid.
- Thoroughly clean the surface of any substance 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.
- Mechanically profile and prepare concrete surfaces to obtain an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of equal to or greater than #5.
- When encountering exposed reinforcing steel bars, clean bars and coat with *Mapefer*TM 1K or *Planibond*[®] 3C (see the appropriate Technical Data Sheet for details) to protect against corrosion and to improve adhesion.

MIXING

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

1. Use a drill and paddle, or a mortar mixer for mixing.
2. Using 1.8 U.S. qts. (1.70 L) of clean, potable water per 55 lbs. (24.9 kg) of *Topcem Pronto*, pour about 4/5 of the required amount of cool, clean, potable water into a mixing vessel.
3. Slowly add *Topcem Pronto* to the water while mixing. Next, add the remaining 1/5 of water to achieve the desired consistency.
4. Mix for 2 to 3 minutes to achieve a smooth, homogenous consistency. Do not overmix or overwater.

PRODUCT APPLICATION

Read all applicable instructions thoroughly before installation.

1. Reference ICRI Technical Guideline #310.2R-2013 and ACI RAP Bulletins 3 and 6 for details on repair geometry, surface preparation and material application.
2. Ensure that the concrete substrate is saturated surface-dry (SSD).
3. Work a scrubcoat of *Topcem Pronto* into the SSD substrate.
4. While the scrubcoat is still wet, apply *Topcem Pronto* with a float or screed.
5. Use *Mapecrete*[®] *Film* as an evaporation retarder when conditions of excessive heat and/or wind are present.
6. Finish the surface to the desired finish and begin curing.

CURING

- Cure with wet burlap or polyethylene sheet during the first 72 hours of curing. Alternately, apply a water-based curing compound conforming to ASTM C309.

CLEANUP

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

LIMITATIONS

- Do not install over substrates containing asbestos.

- Only use between 45°F and 95°F (7°C and 35°C). This temperature range must be maintained for at least 3 days after the installation of *Topcem Pronto*.
- Do not apply over standing water or if rain is expected within 24 hours of application.
- Do not add additives or cements to *Topcem Pronto*.

Product Performance Properties

Laboratory Tests	Results
Compressive strength – ASTM C109 (CAN/CSA-A5)	
1 day	> 1,150 psi (7.93 MPa)
7 days	> 3,190 psi (22 MPa)
28 days	> 4,350 psi (30 MPa)
Flexural strength – ASTM C348 (CAN/CSA-A23.2-8C)	
1 day	> 435 psi (3 MPa)
7 days	> 725 psi (5 MPa)
28 days	> 870 psi (6 MPa)
Bond strength – ASTM C1583/C1583M	
28 days	> 290 psi (2 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	Gray

Application Properties

Application temperature range	45°F to 95°F (7°C to 35°C)
Pot life	60 minutes
Initial set – ASTM C807	90 minutes
Final set – ASTM C807	200 minutes
Residual moisture content less than 2.5%	48 hours
VOC content	0 g per L

Note: Placements of high volumes of material and cool, damp and humid conditions will slow the rate of hydration and cause *Topcem Pronto* to retain a higher moisture content for a longer period of time. In high-volume placements and in temperatures below 70°F (21°C), increase the time allowed before applying a covering.

CSI Division Classifications

Maintenance of Concrete	03 01 00
Mortar Bed Tiling	09 32 00

Packaging

Size
Bag: 55 lbs. (24.9 kg)

Approximate Coverage*

per 55 lbs. (24.9 kg)

Water Used in Mixture	Yield
1.8 U.S. qts. (1.70 L)	0.42 cu. ft. (0.0119 m ³)

* Coverage varies depending on the amount of water utilized.

RELATED DOCUMENT

- “Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion,” ICRI Technical Guideline #310.2R-2013

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (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.**

CONTACT INFORMATION

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Customer Service

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For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.
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