



**MAPEI**<sup>®</sup>

# Concrete Renew<sup>™</sup> Fine

## Fine-Grade Concrete Resurfacer



### DESCRIPTION

*Concrete Renew Fine* is a one-component, polymer-modified, cementitious material formulated with a finer aggregate than *Concrete Renew* to give a smoother finish when resurfacing existing concrete.

### FEATURES AND BENEFITS

- Natural, light gray color
- Can be finished by broom or trowel to resemble surrounding concrete
- Compatible with most sealers, dyes and stains
- Freeze/thaw-stable
- Apply by trowel, broom, hopper gun and plaster pump.
- Can be finished to a smooth finish

### 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.

Additional Green Certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

### WHERE TO USE

- Interior and exterior use
- Resurfacing of sound concrete surfaces
- Residential vehicle and pedestrian applications
- Textured "skip-trowel" finishes
- Resurfacing of old concrete retaining walls
- Dressing up worn or spalled concrete to provide a like-new finish

### SURFACE PREPARATION

- Concrete surface must be clean and free of loose particles, efflorescence, paints, tars, grease, asphaltic materials, bond breakers, curing compounds, wax, and any foreign substance or any conditions that may affect product performance or proper bonding.
- Ensure that any concrete that has been damaged or weakened (such as by de-icing salts) is mechanically removed before application of *Concrete Renew Fine*. Remove concrete until achieving a sound substrate with a pH greater than 10 and demonstrating a minimum tensile pull strength of 175 psi (1,21 MPa).
- Mechanically profile and prepare concrete surfaces by engineer-approved methods in accordance with the most current ICRI 310.2R Guidelines to obtain a CSP between #2 and #3.
- Ensure that the concrete substrate is saturated surface-dry (SSD) before installation of *Concrete Renew Fine*.
- Most substrates benefit from priming. For priming absorbent concrete substrates, use a mixture created from 3-to-1 ratio of water to *Planicrete*<sup>®</sup> UA.



## MIXING

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

1. One 25-lb. (11,3-kg) bag of *Concrete Renew Fine* requires 3.6 U.S. qts. (3,41 L) of water. For additional performance, the same amount of *Concrete Renew Fine* can instead be mixed with 3.8 U.S. qts. (3,60 L) of liquid created from a 3-to-1 ratio of water to *Planicrete UA*.
2. Place 3/4 of the desired mixing liquid into a mixing container.
3. Slowly add *Concrete Renew Fine* powder while mixing; always add the powder to the liquid. While mixing, add enough of the remaining mixing liquid to achieve the desired consistency. Do not add more mixing liquid than specified.
4. Mix with a medium-speed drill (at 500 to 850 rpm) and a ribbon paddle for at least 2 minutes, ensuring a lump-free consistency.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. For best results, apply material in the cool of day, protected from wind and direct sunlight.
2. Apply with trowel, hopper gun, plaster pump or another acceptable method immediately after mixing. General application thickness should be no greater than the coarse aggregate in *Concrete Renew Fine* and up to 1/8" (3 mm) per lift.
3. When priming, use a roller to install the 3-to-1 mixture of water and *Planicrete UA* to the prepared substrate. Ensure that there are no puddles.
4. Immediately apply a scrubcoat of the mixed *Concrete Renew Fine* to the prepared surface.
5. Apply the *Concrete Renew Fine* to the desired depth by trowel, hopper gun or plaster pump.
6. Finish to the desired appearance by trowel or broom.
7. When applications of *Concrete Renew Fine* will be exposed to vehicular traffic (such as cars and light trucks), always use *Planicrete UA* with *Concrete Renew Fine* and utilize a three-coat application system, preparing the substrate to an SSD condition and with a scrubcoat before the application of each coat. Apply the first layer and apply a brush finish or light broom texture. After at least 3 hours, apply a second layer with a brush or light broom finish at a 90-degree angle to the first layer. After at least 3 hours, apply the third and final layer with a brush or light broom finish in the same direction as the first layer. Once dry, apply a suitable sealer.

## EXPANSION AND CONTROL JOINTS

- Honor all expansion and control joints.

- Fill any sawcut joints with a suitable joint sealant to protect against water intrusion and the potential of progressive freeze/thaw damage.
- Do not allow *Concrete Renew Fine* to bridge any moving expansion joint, crack or control joint.

## CURING AND PROTECTION

- *Concrete Renew Fine* is self-curing.
- Avoid walking on the installed surface for at least 1 hour after installation, depending on temperature and humidity conditions.
- When applying and curing the product, protect it from excessive heat and high winds, which can cause premature surface drying.
- Protect from traffic, dirt, dust and moisture until *Concrete Renew Fine* is cured and a sealer has been installed.
- Always seal *Concrete Renew Fine* with a compatible sealer such as *Mapefinish™ Wet Look* (water-based, film-forming sealer) as early as 3 hours after *Concrete Renew Fine* has been placed and has cured. *Concrete Renew Fine* must cure for 7 days before the application of solvent-borne sealers.

## CLEANUP

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

## LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not install over standing water or if rain is expected within 4 hours of the installation.
- Two or more applications of *Concrete Renew Fine* are generally required.
- Before application, test all surface treatments on a small sample area to ensure that the desired results will be achieved.
- Always fill in deep areas, spalls or cracks with appropriate concrete restoration materials, such as *Planitop® X*, *Mapecem® Quickpatch* or *Epojet™*. Dormant cracks can be filled with *Epojet* to reduce chances of re-cracking in the future (see the Technical Data Sheet for details). MAPEI does not warrant that cracks will not reappear, even when following established repair techniques.
- Verify compatibility before coloring with iron oxide pigments and liquid color packs.
- Concrete substrate and ambient temperatures must be between 41°F and 95°F (5°C and 35°C) before application. Temperatures must be maintained within this range for at least 8 hours after the installation of *Concrete Renew Fine*. Allow for extra cure time when temperatures are below 65°F (18°C). Follow ACI guidelines when installing above 85°F (29°C).

## Product Performance Properties

Laboratory Tests	Results
Flammability	This product is certified by MAPEI as "noncombustible" in accordance with IMO FTP Code requirements.
Initial set (Vicat)	60 to 90 minutes
Final set (Vicat)	2 hours
Compressive strength, 28 days (ASTM 109)	> 3,600 psi (24,8 MPa)
Flexural strength, 28 days (ASTM C348-02)	> 1,100 psi (7,59 MPa)
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

## Shelf Life and Application Properties at 73°F (23°C) and 50% relative humidity

Shelf life	1 year when stored in the original, unopened packaging
Pot life	20 minutes
Open time	5 to 20 minutes after applying
Drying time	24 hours (cure time)
Application temperature range	41°F to 95°F (5°C to 35°C)
Color	Natural, light gray

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.

## CSI Division Classification

Maintenance of Concrete	03 01 00
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## Packaging

Size
Bag: 25 lbs. (11,3 kg)

## Approximate Coverage\* per 25 lbs. (11,3 kg)

Coverage
50 to 75 sq. ft. (4,65 to 6,97 m <sup>2</sup> )

\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and setting practices.

# Concrete Renew Fine



- *Concrete Renew Fine* is not intended for use as an industrial wear surface or for heavy truck traffic.
- *Concrete Renew Fine* must be sealed with a suitable, film-forming, water-based sealer after it has cured.
- When adding powdered oxides or liquid colorants, consult with the manufacturer regarding proper uses and dosages. Always perform a mockup to ensure that the desired results and finish are achieved.
- Do not mix more material than can be applied within 20 minutes.
- Do not retemper or add more mixing water. Remixing or adding more water will change the final cured color.
- *Concrete Renew Fine* can be used for minor patching less than 3/16" (4,5 mm) deep and 2" (5 cm) in diameter. For patching, reduce the mixing liquid by 40% and mix to a stiff consistency. For patching areas greater than 3/16" (4,5 mm) deep or greater than 2" (5 cm) in diameter, use *Mapecem Quickpatch*.
- For applications subject to freeze/thaw conditions, always mix *Concrete Renew Fine* with a mixing liquid created from a 3-to-1 ratio of water to *Planicrete UA*.
- Do not expose *Concrete Renew Fine* to rolling or dynamic loads for at least 24 hours after installation. Note: Cooler conditions require longer curing times before exposing to traffic.

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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