

PRO-MIX™ CONCRETE REPAIR



Pro-Mix™ Concrete Repair is a fast setting, high performance concrete repair material. It is ideal for repairs where fast setting and rapid high strength are needed. It sets in 15 minutes and gains structural strength in 1 hour.

| | |
|-------------|-----------------|
| Initial Set | 15 – 20 minutes |
| Final Set | 25 – 30 minutes |

Slant Shear (ASTM C882):

| | |
|----------|------------------|
| 24 hours | >2200 (15.2 MPa) |
| 28 days | >2800 (19.2 MPa) |

Flexural (ASTM C348):

| | |
|---------|------------------|
| 28 days | >1300 (8.97 MPa) |
|---------|------------------|

Splitting Tensile (ASTM C496):

| | |
|---------|----------------|
| 7 days | >450 (3.1 MPa) |
| 28 days | >550 (3.8 MPa) |

Length Change (ASTM C157):

| | |
|------------|--------|
| 28 day air | -0.002 |
| 28 day wet | 0.028 |

Freeze Thaw (ASTM C666):

100%

NOTE: Test results obtained under controlled laboratory conditions at 73°F (22.7°C) and 50% relative humidity. More or less water may be required to achieve the desired mixing consistency depending on the atmospheric conditions and job site conditions.

DIVISION 3:

Maintenance of Concrete
03 01 00

LEED Eligibility:

Regional Materials (MR-c5)
Recycled Material (MR-c4)

Color: Gray

Preparation

For best results all materials should be stored between 50°F (10°C) and 90°F (32°C) 24 hours prior to installation.

1. Use only when the product, air, and surface temperature are above 50°F (10°C) for a minimum of 24 hours.
2. Clean area and remove all unsound concrete, grease, oil, paint, and any other foreign material that will inhibit performance.
3. Slick or sealed surfaces must be thoroughly roughened to CSP 3-5. Completely expose and clean all reinforcement steel, ensuring a minimum clearance of ¼ in. (19 mm) behind reinforcing steel.
4. Perform reinforcing steel preparation in accordance with International Concrete Repair Institute Technical Guideline No. 03730.
5. Surface should be brought to a saturated surface dry (SSD) condition with clean potable water.
6. Wood form work or other absorbent forms should be coated with a form release oil to prevent material adherence and water absorption.
7. Floors/walls must be structurally sound, free from movement and dimensionally stable.

Features and Benefits:

- High early strength
- Sets in 15-20 minutes-limited down time
- Low Shrink, Non-Metallic
- Multi-Purpose – for concrete repairs
- Polymer-modified for excellent bond to concrete and masonry
- Great wearability
- Freeze-thaw stable

Uses:

- Vertical, horizontal or overhead repairs
- Above or below grade applications
- Column support bases
- Concrete roadways
- Masonry
- Driveways/walkways
- Industrial floors

Yield/Coverage:

| Yield | Water |
|---|-------------------------------------|
| 0.2- cu. ft. (0.0057 m ³) | 1.25 qt – 1.4 qt (1.2 L – 1.3 L) |
| Approximate Coverage | |
| 2.4 sq. ft. at 1" Depth (0.064 m ³ at 25mm Depth) | |

Packaging:

Available in 20 lb.
(9.1 kg) Pail

Yield/Coverage:

| Approximate Coverage | Water |
|--|------------------------------------|
| 0.5- cu. ft. (14.16L) | 3.0 qt – 3.5 qt (2.8 L – 3.3 L) |
| Approximate Coverage | |
| 6 sq. ft. at 1" Depth (0.17 m ³ at 25mm Depth) | |

Packaging:

Available in 50 lb.
(22.7 kg) Bag

Yield and water are approximate

Technical Data

Compression Strength ASTM C109 – Standard Test Methods for Compressive Strength of Hydraulic Cement Mortars

| | |
|----------|-----------------------|
| 1 hour | >3,000 psi (20.7 MPa) |
| 3 hours | >4,000 psi (27.6 MPa) |
| 24 hours | >5,500 psi (37.9 MPa) |
| 7 Days | >6,000 psi (41.4 MPa) |
| 28 days | >7,000 psi (48.3 MPa) |

Placement

1. Mix only the amount of material that can be placed in 10 minutes.
2. Do not apply over concrete cured less than 28 days or that is frozen or contains frost.
3. Do not bridge over existing expansion or control joints.
4. Immediately place the blended material into the properly prepared area.
5. Compact and consolidate with the necessary means to eliminate any voids. Finish surface with a trowel or float immediately. Can also be broom finished.
6. Minimum application thickness 1/4 in. (6.4 mm) to a maximum thickness of 6 in. (152.4 mm).
7. Standard concrete finishing and curing practices should be followed as described in ACI Manual of Concrete Practice.
8. Protect from freezing for a minimum of 24 hours.

Refer to:

ACI 308 Standard practice for curing concrete.

NOTE: it is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use

For installation where acids and sulfates are present, a protective coating is required. Protect uncoated aluminum from direct contact with Portland cement-based materials.

Refer to:

ACI 306R Cold Weather Concreting

ACI 305R Hot Weather Concreting

Mixing

1. Only mix with clean potable water.
2. Water demand and mix temperature must be determined using standard test methods for consistency and temperature measurement at the time of application.
3. Refer to the Yield / Coverage table above for guidance on water quantity.
4. Place ¾ of desired mixing water, start mixer then slowly add the dry material. After all of the powder has been added, slowly add the remaining ¼ water until the desired consistency is achieved.
5. Avoid adding excessive amounts of water that promotes segregation and bleeding.
6. Mix for 2-3 minutes to ensure a uniform lump free consistency and place immediately

Precautions:

Air, mix and substrate temperatures should be between 40°F (4°C) and 90°F (32°C). For applications outside this range of temperatures and conditions, contact Sakrete Technical Service.

- Colder temperatures or higher humidity conditions will retard set times
- Do not use in applications of high dynamic loading
- Do not re-temper by adding water.
- Do not add accelerators, retarders, plasticizer or other additives.
- Do not apply in application thicknesses > than 6 in. (152.4 mm)

NOTE: Proper application and installation of all Sakrete products are the responsibility of the end user.

Safety

READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product. WARNING: Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA). KEEP OUT OF REACH OF CHILDREN.



DANGER

HAZARD STATEMENT: Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust. If exposed or concerned: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents and container in accordance with all local, regional, national and international regulations

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

LIMITED PRODUCT WARRANTY:

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the dates the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement or defective products or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.

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