

## RECRETE

### Cementitious Repair Mortar

#### DESCRIPTION

**Recrete** is a one-component, cementitious, fast-setting restoration and repair mortar. This product has a light gray color and is designed for vertical, overhead, and horizontal applications. This fast-setting, low-slump repair mortar may be troweled, shaped, molded, and shaved before taking a final set. Recrete is an excellent patching solution for difficult vertical and overhead applications.

#### USES

Recrete is easy to mix and apply. This fast-setting, low slump mortar is designed to minimize downtime. Because of its versatility, Recrete can be used vertically, horizontally, or overhead. Whether the installation is interior or exterior, Recrete is an excellent choice for fast repairs above-, below-, or on-grade. Typical applications include repairs to curb and gutters, precast concrete elements, tie-rod holes, concrete pipe, columns, beams, or any other general-purpose repair.

#### FEATURES

- Low slump design for easy molding and shaping/no forms needed
- May be feathered-edged/tenacious bond
- May be used vertically, horizontally, or overhead/highly versatile.
- Excellent freeze-thaw characteristics/long term repair stability
- Fast-setting/increases turnaround time
- Highly suitable for precast and cast-in-place concrete patching
- Designed to aesthetically blend with typical concrete
- Suitable for concrete pipe construction work

#### PACKAGING

50lb. (22.7 kg) Pail

#### COVERAGE

Recrete yield per 50lb. pail is 0.45 ft<sup>3</sup> (0.013m<sup>3</sup>)

#### SHELF LIFE

One year from date of manufacture when stored indoors on pallets in a dry, cool area. Do not store product outside.

#### APPLICATION

**Surface Preparation:** Prepare concrete substrate in accordance with ICRI Technical Guideline #310.2: Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays. Mechanically roughen or high-pressure water-jet existing concrete substrate to a minimum concrete surface profile of CSP-4 or higher, depending on substrate condition. Remove all unsound concrete and provide a profiled, porous surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants that will adversely affect bond. Sanding, cup grinding, or wire-abrading are not approved surface preparation methods. Substrate must be saturated, surface dry (SSD) and free of standing water. Prime SSD substrate with slurry coat consisting of two parts powder to one part water. Do not allow slurry coat to become dry or

tack-free. If slurry coat becomes dry or tackfree prior to application of the bulk mix, reapply slurry coat after the already primed substrate has been properly saturated to SSD condition. For increased bond, prime substrate with medium-viscosity structural bonding agent from TRI-CHEM and follow surface prep and application procedures as outlined on that data sheet.

**Mixing:** Recrete requires 3.5 - 4 quarts (3.30 - 3.78 L) of potable water per bag depending on desired consistency. Mix for three minutes or until homogenous and until lump-free. Do not mix more material than can be placed and finished within 8 - 12 minutes at 77° F (25° C). Do not over-mix.

**Placement:** Compact Recrete into properly prepared (SSD) substrate prior to bulk placement. Finish surface with a wood or steel trowel or sponge float. Recrete may be applied up to 2" (51 mm). Do not re-temper or over-work product. Follow ACI 305 "Standard on Hot Weather Concreting" or ACI 306 "Standard on Cold Weather Concreting," when applicable.

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## PRECAUTIONS

Recrete is recommended for concrete repairs only. It is not intended to be used as a self-leveling underlayment or topping; Recrete is designed as a trowel down repair mortar. Do not apply below 35° F (1.7° C) or above 90° F (32.2° C) or when rain is imminent. Protect from freezing for a minimum 24 hours. Do not bridge moving cracks. Extend existing control, construction, and expansion joints through Recrete. For large areas with no control, expansion or construction joints, refer to ACI guidelines. The length-to-width ratio of the repair area should not exceed 2 to 1. Do not add any admixtures. Exceeding liquid requirements shall result in reduced physical properties. Realize that set time will decrease as the product, air, substrate, and mixing liquid temperature increase and will increase as the temperature decreases. Featheredging may result in reduced durability and performance. Maximum application thickness should not exceed 2" (51 mm) when applied neat. Protect from conditions that may cause early water loss such as wind, low humidity, high temperature, direct sunlight. Early water loss is also amplified in thin applications. Failure to follow industry standard practices may result in decreased material performance.

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## HEALTH AND SAFETY

Avoid direct contact with this product, as it may cause skin and eye irritation. Utilize gloves and safety glasses to minimize direct contact. Avoid inhalation of dust. Inhalation may cause respiratory irritation and/or lung disease (silicosis). This product contains silicon dioxide, which is classified by the IARC and NTP as probably carcinogenic to humans (IARC Group 2A). The use of NIOSH approved respiratory protection is recommended in dusty environments. Refer to Safety Data Sheet for complete health and safety information. Keep product out of reach of children.

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## TECHNICAL DATA

### Set Times per ASTM C 191:

Initial	8-12 minutes
Final	15-20 minutes

### Compressive Strength per ASTM C 109:

@ 3 hours	1,200 psi (8.2 MPa)
@ 1 day	2,500 psi (17.2 MPa)
@ 7 days	6,000 psi (41.3 MPa)
@ 28 days	6,500 psi (44.8 MPa)