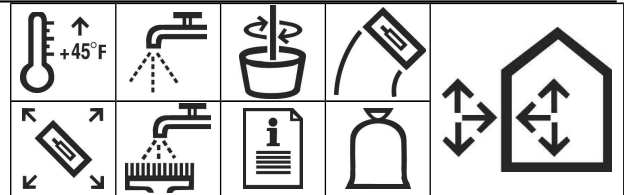


StoPatch Extended Repair Mortar

82211 StoPatch Extended Repair Mortar



Technical Data

| REPORT | TEST METHOD | TEST CRITERIA | TEST RESULTS |
|------------------------------------|-------------|---------------|-----------------|
| Compressive Strength (psi) | ASTM C-109 | 7 days | 4,500 |
| | | 28 days | 6,000 |
| Flexural Strength (psi) | ASTM C-293 | 7 days | 690 |
| | | 28 days | 725 |
| Modulus of Elasticity (psi) | ASTM C-469 | 28 days | 3.6 million psi |
| Length Change (%) | ASTM C-157 | 28 days | <0.079 |

Typical values for material cured at 73 °F (23 °C) and 50 % RH
 Note: To convert psi to Mega Pascal (MPa) multiply by 0.0069.

StoPatch Extended Repair Mortar is a single-component cement based mortar for structurally repairing or overlaying deteriorated concrete. Use on horizontal surfaces for repairs from 1½ to 8 inches (38 to 203 mm). The product can also be used for horizontal or vertical/overhead form & pump applications, or vertically or horizontally in form & pour applications.

Features Benefits

| | |
|---|---|
| 1 Low Shrinkage | Stable bond line; resists perimeter cracking |
| 2 Thermally Compatible with Concrete | Prevents delamination caused by temperature changes |
| 3 High Abrasion Resistance | Stands up to abusive traffic |
| 4 One Component | Ready to use; pumpable; easily mixed with water on the job-site no chemical jugs to dispose |
| 5 Pre-extended | Ensures quality aggregate. Pre-measured extension increases job productivity |

Packaging
80 lb. bag (36 kg).

Shelf Life
12 months in original, properly stored, unopened container.

Storage
Store in a dry area, between 50°F (10°C) and 85° F (29°C). Protect from direct sunlight, extreme heat.

Surface Preparation

Patching
Remove loose and deteriorated concrete by mechanical chipping, or sand-blasting to obtain a fractured aggregate surface. Detail the edge of the patch to a 90° angle to eliminate feather edging. Make sure surfaces are sound, clean, and free of all bond-inhibiting materials including oil, dirt, dust, laitance and standing water.

Overlay
Remove loose and deteriorated concrete with a scabbler or by shot-blasting to obtain a fractured aggregate surface. Detail the edge of the overlay to a 90° angle to eliminate feather edging. Make sure surfaces are sound, clean, and free of all bond-inhibiting materials including oil, dust, dirt, laitance and standing water.

StoPatch Extended Repair Mortar

Mixing

Use StoPatch Extended Repair Mortar at a preconditioned temperature of 70 ± 5°F (21 ± 3°C).

Mortar Mixer

Pre-dampen thoroughly the inside of a clean mortar mixer, then remove any excess water. Pour 6.0 pints (2.83 L) of water per bag into the mortar mixer and slowly add all of the powder. If more water is needed, up to one-half pint (0.24 L) per bag may be added.

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

Patching and Overlay

Dampen the area to be repaired so that the pores of the concrete are filled with water. Remove any ponding or glistening water on the surface (saturated surface dry/SSD).

Work a scrub coat of the mixed material into the substrate to ensure intimate contact and establish bond. Apply StoPatch Extended Repair Mortar while the scrub coat is still wet. Consolidate it and trowel to desired finish.

Limitations

- Apply only when the surface and ambient temperatures are 45°F-50 °F (7-10 °C) and rising. See Cold Weather Application guidelines, as per ACI for applications in temperatures less than 50°F (10°C). Applications made during temperatures greater than 85°F (29°C) should follow Hot Weather Application guidelines, as per ACI.
- Cold or damp conditions retard hydration and require additional time before coating or opening to traffic.
- The minimum required thickness is 1.5 inches (38 mm).
- Do not feather edge.
- Do not add more water than specified.
- Do not add additional powder from other units.
- Do not overmix.

Mix up to 4 minutes, to a uniform, lump-free consistency. Avoid over mixing which could entrap air. Once mixed the working time is 20-40 minutes depending upon material, ambient and surface conditions.

Curing

Direct sun or wind may cause unwanted rapid surface drying. Curing may be accomplished by continuous water fogging for 48 hours or cover with damp burlap or burlene curing blankets. Do not use solvent-based curing compounds or allow water to puddle. If a coating or sealer will be applied, use water fogging or blanket curing methods and prep finished surface per manufacturer's recommendations.

Clean Up

Clean tools and equipment with water immediately after use. Cured materials can only be removed mechanically.

Health And Safety

Health Precautions

Contains Portland cement and silica. Avoid breathing dust. As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Use of a NIOSH/MSA approved dust respirator, safety goggles and protective gloves are recommended.

First Aid

SKIN CONTACT: Wash hands thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY

PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before reuse.

Spills

Collect in an appropriate container. Uncured material may be removed with water.

Disposal

Dispose of in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

LIMITED WARRANTY

THIS PRODUCT IS SUBJECT TO AWRITTEN LIMITED WARRANTY WHICH CAN BE OBTAINED FREE OF CHARGE FROM Sto Corp.

Refer to Specifications for more complete information on proper use and handling of this product.

Sto Corp.
3800 Camp Creek Parkway
Building 1400, Suite 120
Atlanta, GA 30331

Tel: 404-346-3666
Toll Free: 1-800-221-2397
Fax: 404 346-3119

www.stocorp.com

S155-82211
Revision: A3.0
Date: 06/2016

Attention

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.