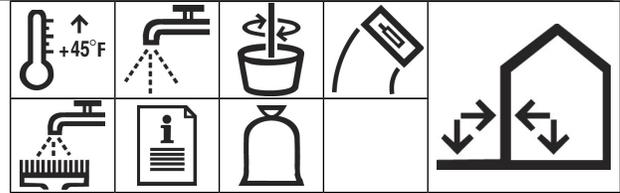


Sto Trowel-Grade Mortar with CI

80701 Sto Trowel-Grade Mortar with CI



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Working Time (minutes)			25-45
Compressive Strength (psi)	ASTM C-109	7 days 28 days	7,000 8,200
Flexural Strength (psi)	ASTM C-293	7 days 28 days	1,200 1,500
Modulus of Elasticity in Compression (psi)	ASTM C-469	28 days	3.67 x 10 ⁶
Shrinkage (%)	ASTM C-157	7 days 28 days	0.06 0.08
Rapid Chloride Permeability (Coulombs)	ASTM C-1202	28 days	820

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.

Sto Trowel-Grade Mortar with integral corrosion inhibitor is a polymer modified, cement-based mortar for structurally repairing or overlaying deteriorated concrete. Use on horizontal or vertical surfaces for repairs from 1/4 to 2 inches (6 mm to 51 mm) or extend it with aggregate for deeper horizontal applications.

Coverage
 20-25 ft² per 60 lbs bag, applied at 1/4 inch thick (2 m² per 27 kg bag, at 6 mm thick).

Packaging
 60 lbs bag (27 kg).

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

Features Benefits

1 Polymer-Modified	Increases durability and freeze-thaw resistance; excellent adhesion; improves flexural strength
2 Low Shrinkage	Stable bond line; resists perimeter cracking
3 Thermally Compatible with Concrete	Prevents delamination caused by temperature changes
4 Integral Corrosion Inhibitor	Protects embedded steel against corrosion
5 High Abrasion Resistance	Wears longer; stands up to abusive traffic
6 One Component	Factory-controlled polymer-to-cement ratio; ready to use; easily mixed with water on the job-site no chemical jugs to dispose

Storage
 Store in a dry area between 50°F (10°C) and 85°F (29°C). Protect from direct sunlight and extreme heat [90°F (32°C)].

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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 scabber 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, dirt, dust, laitance and standing water.

Mixing

Patching and Overlay

Use Sto Trowel-Grade Mortar with CI at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Use 6.0 - 6.5 pints (2.83 to 3.08 L) of water per 60 pound (27 kg) bag.

Using Drill and Paddle: Mixing must be achieved mechanically using a slow-speed drill and mixing paddle. Pour 6 pints (2.83 L) of water into a clean 5 gallon (19 L) mixing bucket. Mix while slowly adding the powder, one-third at a time. If more water is needed, up to 1/2 pint (0.24 L) may be added.

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. Mix up to 4 minutes, to a uniform, lump-free consistency. Avoid over mixing which could entrap air. Once mixed the working time is 25-45 minutes, depending upon material, ambient and surface conditions.

NOTE: For application depths greater than 2 inches (51 mm), extend Sto Trowel-Grade Mortar by adding 40 pounds (19 kg) of clean, uniformly graded, 3/8-inch (9 mm) aggregate dampened to SSD condition.

Application

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 Sto Trowel-Grade Mortar with CI while the scrub coat is still wet. Consolidate it and trowel to the desired finish. Applications made during temperatures below 50°F (10°C) or above 85°F (29°C) should follow the appropriate application guidelines, per ACI.

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 coating manufacturer's recommendations.

Clean Up

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

Health And Safety

DANGER!

Causes serious eye damage, skin irritation, allergic skin reaction, respiratory irritation
Causes damage to organs through prolonged or repeated exposure.
Harmful if inhaled

Precautionary Statements: Avoid breathing dust/fume/gas/ mist/vapours/ spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Store locked up.

FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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.

Limitations

- Apply only when the surface and ambient temperature are 45°F (7°C) and rising. See Cold Weather Application guidelines, 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, per ACI.

- The minimum required thickness is 1/4 inch (6 mm).
- Do not feather edge.
- Do not add more water than specified.
- Do not add additional powder from other units.
- Do not overmix.

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Attention

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