



H2 Coarse

Two Component Patching Mortar
w/ Ferrolok™ Penetrating Corrosion Inhibitor

DESCRIPTION

H2 Coarse is a two-component, polymer modified, portland cement mortar. This product is a fast setting patching material for surface repairs from feather edge to 1" neat and up to 4" extended, in both interior and exterior applications. **H2 Coarse** exhibits superior workability by maintaining a smooth, creamy consistency for easy troweling and offers the additional benefit of **Ferrolok™**, a penetrating corrosion inhibitor.

USES

H2 Coarse is ideal for a wide variety of concrete surface repairs:

- Surfaces subject to severe freeze/thaw cycles
- Refinish old concrete and masonry surfaces
- Parking garages, ramps, warehouses, loading docks and all structural surface repair
- Fill in pits, voids and defects in concrete and masonry
- Open to foot traffic in 4 hours and pneumatic tire in 12 hours

BENEFITS

- Thermal expansion similar to concrete
- Color: Consistent color match for concrete
- High bond, compressive strengths
- Increased abrasion resistance over **H2 Fine**
- Interior and exterior applications
- Non-Corrosive: Enhanced with **Ferrolok™**
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with **H2 Coarse** shall be free of dirt, oil, grease, laitance and other contaminants that may act as bondbreakers. All unsound concrete should be removed to ensure a good bond. Smooth, dense surfaces may need to be mechanically abraded to provide necessary bonding requirements. ACI recommends that the area to be patched should be saturated for 24 hours before placement. Remove any standing water. Surface should be saturated, surface dry (SSD). For best results, scrub some of the mixed components into the prepared surface. Do not allow scrub coat to fully dry before placement. Always apply a test patch. Maintain contact areas between 40°F (4°C) and 90°F (32°C) prior to repair and during initial curing period.

MIXING

For best results, use a mechanical mixer with rotating blades. Pre-wet mixer and empty excess water. Place 1 gallon of **US SPEC Dura-25** per 50 lb bag in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes to achieve desired consistency. Mix only enough material that can be placed within working time. For placements greater than 1" in depth, it is recommended that **H2 Coarse** be extended 30%, by weight, with clean, washed and dried 3/8" (1 cm) pea gravel. Do not blend excess water or **Dura-25** as this will cause bleeding and segregation. Do not use any other admixtures or additives.

PHYSICAL PROPERTIES

Compressive Strength (ASTM C-109*)

SET	1 DAY	3 DAYS	7 DAYS	28 DAYS
A NORMAL	4,500 psi (31.01 MPa)	5,500 psi (37.90 MPa)	6,000 psi (41.34 MPa)	7,000 psi (48.23 MPa)

Rate of Set (ASTM C-266*)

SET	INITIAL	FINAL
A NORMAL	:30	:55

Length Change (ASTM C-157*)

AGE	% LENGTH CHANGE
28 DAYS AIR	-0.05
28 DAYS WATER	+0.07

Bond Strength (ASTM C-1059*)

AGE	BOND STRENGTH
28 DAYS	4,800 psi (33.07 MPa)

Flexural Strength (ASTM C-78*)

AGE	FLEXURAL STRENGTH
28 DAYS	3,000 psi (20.67 MPa)

Split Tensile Strength (ASTM C-496*)

AGE	SPLIT TENSILE STRENGTH
28 DAYS	2,100 psi (14.48 MPa)

*Notes: 73°F (22.8°C) 55% humidity
A = 4.0 qts US SPEC Dura-25

Packaging: 50 lb (22.7 kg) bag, 63 bags per pallet



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PLACING

H2 Coarse should be placed upon completion of mixing. Place material consistently, avoiding any air entrapment. Trowel material onto the surface to be repaired, ensuring that all pores and voids are filled. Force material against edge of repair, working away from center. After leveling, the patch can be troweled, brushed or broomed to the desired finish. When material has reached the proper set, it can be shaved, shaped or molded with a steel trowel. Multiple lifts can be applied. Each lift should be between 1/8" and 1" thick. Profile or roughen each lift to ensure a good bond. Scream or float to finished elevation.

FINISHING & CURING

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming curing compound such as **US SPEC Maxcure Resin Clear, Hydrasheen 15%** or **Hydrasheen 30%**.

STORAGE

Normal cement storage and handling practices should be observed. Store material in an interior, cool, dry place. Shelf life is one year in original, unopened container.

LIMITATIONS

In addition to limitations already mentioned, please note the following. Contact your US SPEC sales representative when applying in areas of standing water. Do not apply when temperature is below 40°F (4°C) or when the temperature is expected to fall below 40°F within 48 hours. Do not apply over surfaces that are frozen or contain frost. Do not apply over any active faults or cracks in the substrate without addressing any movement that may occur. Allow concrete to fully cure for 28 days before the use of this product. Normal conditions working time is 20 minutes. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your US SPEC manufacturer's representative.

REGULATORY

Read and follow application information, precautions and Material Safety Data Information.

Right-to-know

This product contains Portland Cement (CAS#65997-15-1) and Crystalline Silica (CAS# 14808-60-7)

HMIS

Health 1, Fire 0, Reactivity 0

Prop 65

Warning! This product contains Crystalline Silica, a chemical known to the State of California to cause cancer or reproductive toxicity.

VOC Content

0 g/L

CAUTION

EYE AND SKIN IRRITANT

Contains Portland Cement (CAS# 65997-15-1) and Crystalline Silica (CAS# 14808-60-7). Do not allow contact with eyes or skin. Avoid breathing dust - silica may cause serious lung problems. There is limited evidence silica is a carcinogen. The use of gloves, goggles, dust masks and other protective clothing is recommended. If cement or sand particles get into eyes, rinse immediately with clean water and seek prompt medical attention.

TECHNICAL SERVICE

US MIX Co.

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Web Site: www.usspec.com

NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price.

LIMITATION OF WARRANTIES AND LIABILITY Buyer assumes all risks associated with the use of this product. Manufacturer expressly disclaims all warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and all other warranties otherwise arising by operation of the law, course of dealing, custom, trade or otherwise. Buyer's exclusive remedy if this product is proven to be defective is limited to refund of purchase price by the manufacturer. Refund shall only be available if the buyer notifies manufacturer in writing within thirty days following discovery of any defect. Written notice shall be forwarded to US MIX Co. at 112 South Santa Fe Drive, Denver, Colorado 80223. No claim can be made twelve months after purchase of the product. Twelve months after the purchase manufacturer's duties with respect to the product and limited warranty shall be presumed to have been satisfied. Manufacturer in no event is liable for consequential damages.

Yield: 50 lbs (22.7 kg) will fill approximately 0.43 ft³ (0.012 m³) when mixed with 1 gal US SPEC Dura-25.