

TECHNICAL DATA

DESCRIPTION: **HP Multi Purpose Repair Mortar** is a single component, high early strength repair mortar designed for use in repairing stucco, elevated concrete slabs and slabs on grade. **HP Multi-Purpose Repair Mortar** combines the latest concrete technologies and high quality raw materials to yield a long lasting, high strength, durable concrete repair anywhere long down times cannot be tolerated. Apply **HP Multi-Purpose Repair Mortar** on vertical or horizontal surfaces.

USE ON: Spillways, stucco surfaces, industrial floors, wearing surfaces, and elevated concrete slabs

- ADVANTAGES:**
- Rapid setting
 - Use on vertical and horizontal surfaces
 - Made with C 144 mason sand
 - Excellent workability
 - Fully cured in less than 2 hours
 - Non-shrink
 - Excellent finishing characteristics
 - Tight bond to concrete structures
 - Can be extended

	2 hours	3 hours	1 day	7 days	14 days	28 DAYS
Compressive Strength (ASTM C 39 Extended)	2800 psi (19.1 MPa)	3800 psi (25.92 MPa)	4800 psi (32.74 MPa)	5500 psi (37.51 MPa)	6000 psi (37.5 MPa)	6800 psi (46.9 MPa)
Length Change (ASTM C 157 Dry Cured)		-.000%	-.001%	-.001%	-.0055%	-.01%
Flexural Strength (ASTM C 293)	410 psi (2.1 MPa)	480 psi (3.3 MPa)	610 psi (4.2 MPa)	778 psi (5.3 MPa)	850 psi (5.8 MPa)	900 psi (6.1 MPa)
Bond Strength (ASTM C 882 Modified)	900 psi (6.1 MPa)					
Set Time (ASTM C 266)			Initial Set 10 minutes	Final Set 20 minutes		
Freeze Thaw Resistance (ASTM C 666)	99.2% @ 300 cycles					
Sealing Resistance	0 rating - no scaling					
Mix Design Yield	55 lb bag neat = .46 ft ³			Extended with 50 lbs of gravel = .78 ft ³		

TECHNICAL DATA**SURFACE
PREPARATION:**

Remove all deteriorated concrete, dirt, oil, grease and all bond inhibiting materials from the surface. Be sure repair is not less than 1/8 " in depth. Preparation work should be done by the most efficient mechanical means to obtain a CSP 6 as defined by the International Concrete Repair Institute (ICRI). Saturate surface with clean water, substrate should be saturated, surface dry (SSD) with no standing water. Embedded steel reinforcement should be thoroughly cleaned by mechanical means to remove all traces of rust, revealing a white metal. For priming reinforcing steel use HP Bondit III.

MIXING:

HP Multi Purpose Repair Mortar should be mixed in rotary drum or other suitable mechanical mixer. Introduce measured amount of water to mixer, no more than 5 quarts per bag. If adding aggregate, add one-half the required water to the aggregate in an operating mixer. Add **HP Multi Purpose Repair Mortar** to water and aggregate then add the remaining water, mixing for no more than three minutes to obtain desired consistency. Dump batch and immediately deliver **HP Multi Purpose Repair Mortar** mix to properly prepared substrate. For vertical or overhead repairs use less than 5 quarts of water and mix to desired consistency.

APPLICATION:

HP Multi Purpose Repair Mortar must be scrubbed into the substrate filling all pores and voids. Force the material against the edge of the repair and work toward the center. Fill the repair area entirely, consolidate and screed. Do not layer the material.

LIMITATIONS:

HP Multi Purpose Repair Mortar should be used when ambient temperatures are 40°F (4°C) and rising. Lower temperatures produce a slower set; higher temperatures produce a faster set. For temperatures below 40°F (4°C) consult with the manufacturer for special cold weather placement provisions included but are not limited to conditioning of the materials, use of heated mix water and thermal protection. In hot weather use chilled water for mixing.

PACKAGING:

HP Multi Purpose Repair Mortar is packaged in 55 lb (24.95 kilo) Kraft multi-wall, polyethylene lined bags. Yield when mixed with water is approximately .78 ft³ fully extended.

CAUTION:

WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST. May cause delayed lung injury (silicosis). Follow OSHA safety and health standards for crystalline silica (quartz). Cement powder or freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.