



04 DIVISION
MORTAR

PRODUCT GUIDE FOR PREBLENDED MORTARS & GROUTS



SPEC MIX® DELIVERS THE ULTIMATE MASONRY SOLUTIONS — EVERY TIME



SPEC MIX HAS MORTAR & GROUT PRODUCTS FOR EVERY MASONRY APPLICATION

SPEC MIX® provides product solutions far beyond basic Type S Mortar and Coarse Grout. From custom homes to major sports stadiums, our diverse line of preblended products are engineered for your specific project application.

The SPEC MIX team works with designers and contractors to select the best products and the best silo delivery systems to lock in quality control, jobsite safety and maximum productivity.



MASONRY MORTARS



PORTLAND LIME & SAND MORTAR

TYPE M (PL-02) Item #19035, TYPE S (PL-03) Item #19007, TYPE N (PL-04) Item #19008



SPEC MIX Portland Lime and Sand mortar is a dry preblended mortar mix containing portland cement, hydrated lime and dried masonry sand formulated for superior bond, water retention and board life. SPEC MIX Masonry Portland Lime & Sand mortar is available in color and is engineered for the installation of CMU and brick applications where high mortar workability and board life is required for good bond. Available in Types M, S, and N each meet ASTM C 270, CSA A179 and ASTM C 1714 requirements.



MASONRY CEMENT & SAND MORTAR

TYPE M (MC-02) Item #19026, TYPE S (MC-03) Item #19004, TYPE N (MC-04) Item #19005



SPEC MIX Masonry Cement & Sand mortar is a dry preblended mortar mix containing masonry cement and dried masonry sand formulated for superior bond, water retention and board life. SPEC MIX Masonry Cement & Sand mortar is available in color and is engineered for the installation of CMU and brick applications where high mortar workability and board life is required for good bond. It comes in Types M, S and N, and each designation meets ASTM C 270, CSA A179 and ASTM C 1714 requirements.



MORTAR CEMENT & SAND MORTAR

TYPE M (MR-02) Item #19020, TYPE S (MR-03) Item #19021, TYPE N (MR-04) Item #19022



SPEC MIX Mortar Cement & Sand mortar is a dry preblended mortar mix containing mortar cement and dried masonry sand formulated for superior bond, water retention and board life. SPEC MIX Masonry Cement & Sand mortar is available in color and is engineered for the installation of CMU and brick applications where high mortar workability and board life is required for good bond. It comes in Types M, S and N, and each designation meets ASTM C 270, CSA A179 and ASTM C 1714 requirements.



IWR-INTEGRAL WATER REPELLENT MORTAR

(IW-01) Item #19003, (Available in Types S and N)



SPEC MIX Integral Water Repellent IWR Mortar is a dry, preblended mortar mix that is produced using either portland cement and hydrated lime, mortar cement or masonry cement blended with dried masonry sand and a proprietary repellent admixture. SPEC MIX IWR mortar is specially formulated to reduce water penetration, shrinkage and efflorescence of masonry mortar joints and provide superior workability and bond strength for optimal performance. Tested in accordance with ASTM E 514, SPEC MIX IWR Mortar showed no signs of water penetration. Available in Types S and N, each meet ASTM C 270, CSA A179 and ASTM C 1714 requirements.



TUCKPOINT MORTAR

(TP-01) Item #19031



SPEC MIX Tuckpoint mortar is a dry preblended mortar mix containing portland cement, hydrated lime and dried masonry sand formulated for superior bond, water retention and board life. The mix design incorporates the maximum amount of lime for optimal bond to the masonry unit to permit the pointed wall to expand and contract, while mitigating the occurrence of potential cracking and spalling that is common with inflexible, high strength mortars. SPEC MIX Tuckpoint mortar is thoroughly pretested to ensure it meets ASTM C 270, CSA A179 and ASTM C 1714 requirements.

ENGINEERED MORTARS FOR MASONRY THIN VENEER SYSTEMS



ADHERED VENEER MORTARS

ADHERED VENEER MASONRY MORTAR SELECTION GUIDE

SUPERIOR WORKABILITY, BOND STRENGTH & HIGH PRODUCTIVITY...SPEC MIX OFFERS 3 HIGH PERFORMANCE MORTARS FOR INSTALLING NATURAL & MANUFACTURED MASONRY THIN VENEER UNITS!

PRODUCTS	ADHERED VENEER MORTAR	POLYMER MODIFIED ADHERED VENEER MORTAR	THIN VENEER ADHESION MORTAR XP500
THIN MASONRY UNIT TYPE (BONDING MATERIAL)			
Lightweight manufactured concrete	●	●	●
Thin cut natural stone		●	●
Thin brick		●	●

PRODUCTS	ADHERED VENEER MORTAR	POLYMER MODIFIED ADHERED VENEER MORTAR	THIN VENEER ADHESION MORTAR XP500
SUBSTRATE			
Lath over stud (wood/metal)	●	●	●
Concrete masonry unit		●	●
Properly prepared concrete		●	●
Cement board			●
APPLICATION			
3/8" +/- Scratch coat over lath	●	●	
3/8" +/- Bond coat over scratch coat	●	●	
1/8" - 1/4" Bond coat			●
Joint grout	●	●	



THIN VENEER ADHESION MORTAR XP500

(VM-07) Item #19012

SPEC MIX Thin Veneer Adhesion Mortar XP500 is a premium preblended polymer modified thin set mortar specifically designed to bond masonry thin veneer units including manufactured stone, gauged or ungauged natural thin stone and thin brick to substrates for interior and exterior installations. Its innovative, anti-sag formulation and optimized sand gradation provide superior workability, adhesion and durability crucial to the application. It is engineered to exceed ANSI A118.4 and ANSI A118.15 applicable requirements as well as TMS 402/602 Building Code Requirements for Masonry Structures bond strength requirements when tested in accordance with ASTM C 482. XP500 delivers a high shear bond strength of over 500 psi for a masonry veneer system that lasts.

XP500 ENGINEERING DATA (LABORATORY PREPARED)

*DUE TO THE WIDE VARIABILITY IN NATURAL STONE PHYSICAL CHARACTERISTICS AND STRENGTHS, TESTING IS PERFORMED WITH MANUFACTURED TILE FORMATS.

	ANSI A 118.5 REQUIREMENTS	SPEC MIX XP500 (TYPICAL RESULTS)
PORCELAIN MOSAIC TILE SHEAR STRENGTH, PSI		
AT 1 DAY	100 PSI (0.7 MPa)	>200 PSI (1.3 MPa)
AT 7 DAY	300 PSI (2.0 MPa)	>600 PSI (4.1 MPa)
AT 7 DAY DRY / 7 DAYS WATER IMMERSION	200 PSI (1.3 MPa)	>300 PSI (2.0 MPa)
AT 28 DAYS	400 PSI (2.7 MPa)	>700 PSI (4.8 MPa)
AT 28 DAYS WITH FREEZE-THAW CYCLING	250 PSI (1.7 MPa)	>500 PSI (3.4 MPa)
AT 28 DAYS HEAT AGING	400 PSI (2.7 MPa)	>800 PSI (5.5 MPa)
QUARRY TILE SHEAR STRENGTH, PSI		
AT 28 DAYS	150 PSI (1.0 MPa)	>300 PSI (2.0 MPa)
AT 28 DAYS WITH FREEZE-THAW CYCLING	100 PSI (0.6 MPa)	>200 PSI (1.3 MPa)
	TMS 402/602 REQUIREMENTS	SPEC MIX XP500 (TYPICAL RESULTS)
CERAMIC TILE SHEAR STRENGTH, PSI		
AT 28 DAYS (ASTM C 482)	50 PSI (0.3 MPa)	>300 PSI (2.1 MPa)

SPEC MIX XP500 IS BACKED BY 15 & 25 YEAR WARRANTIES





ADHERED VENEER MORTAR (AVM)

(VM-01) Item #19010

AVAILABLE
IN COLOR



SPEC MIX Adhered Veneer Mortar (AVM) is a specially formulated mortar for use in the installation of adhered masonry veneer. It contains an optimal blend of dry cementitious materials, masonry sand, and performance enhancing admixtures specifically designed to provide superior bond for manufactured adhered veneer units to base surfaces. It is formulated as a cohesive material with consistent workability, high water retention and excellent bond strength.

ADHERED VENEER MORTAR PERFORMANCE STANDARDS

BOND STRENGTH	TMS 402/602 REQUIREMENT	SPEC MIX ADHERED VENEER MORTAR (TYPICAL RESULTS)
At 28 Days (ASTM C 482)	50 PSI (0.3 MPa)	>100 PSI (0.7 MPa)



POLYMER MODIFIED ADHERED VENEER MORTAR (PMAVM)

(VM-04) Item #19011

AVAILABLE
IN COLOR



SPEC MIX Polymer Modified Adhered Veneer Mortar (PMAVM) is a technologically advanced adhered veneer mortar for use in bonding adhered manufactured stone veneer, natural thin cut stone and thin brick to a cementitious substrate. PMAVM is designed to provide excellent workability, cohesion, high bond strength, sag resistance, water resistance, efflorescence minimization, and durability.

POLYMER MODIFIED ADHERED VENEER MORTAR PERFORMANCE STANDARDS

BOND STRENGTH	TMS 402/602 REQUIREMENT	SPEC MIX POLYMER MODIFIED ADHERED VENEER MORTAR (TYPICAL RESULTS)
At 28 Days (ASTM C 482)	50 PSI (0.3 MPa)	>300 PSI (2.1 MPa)

BUILDING STONE MORTARS



BUILDING STONE MORTAR

(SM-01) Item #19074 (Available in Hard Stone and Soft Stone mix formulations)



SPEC MIX Building Stone Mortars are specifically designed and preblended with portland cement, lime and sand for masons building vertical masonry structures with full depth stone units. For specifications calling for soft or hard stone and a full mortar bed, SPEC MIX Building Stone Hard & Soft mortar mixes are engineered to match the specific properties of the stone to increase mortar-to-stone bond strength while allowing the mason to install units with maximum craftsmanship and productivity.

HARD STONE MORTAR - A high performance customized mortar engineered with a high cement, low lime and mason sand formulation that produces a workable mix with low water retention for installing natural full depth stone with low absorption, high density and compressive strength values based on ASTM C 97 testing. SPEC MIX Building Stone Mortar for Hard Stone is tested to meet ASTM C 270, CSA A179 and ASTM C 1714 requirements.

SOFT STONE MORTAR - A high performance mortar engineered with a high cement, low/medium lime content formulation that produces a workable mix with low to medium water retention for installing natural full depth stone with medium/high absorption rates, low density and compressive strength units based on ASTM C 97 testing. SPEC MIX Building Stone Mortar for Hard Stone is tested to meet ASTM C 270, CSA A179 and ASTM C 1714 requirements.



PAVING MORTARS



SETTING BED MORTAR

(SB-01) Item #19080

SPEC MIX Setting Bed is specifically engineered as a thick, dry-pack mortar bed for constructing horizontal surfaces with natural and manufactured paving units. This preblended product contains portland cement, lime and sand that are mixed with a low water addition rate for a zero-slump mortar base material that meets ASTM requirements.



POLYMER MODIFIED SETTING BED MORTAR (PMSBM)

(SB-04) Item #19081



SPEC MIX Polymer Modified Setting Bed (PMSBM)) is specifically engineered as a thick, dry-pack or wet-set mortar bed for installing natural and manufactured paving units in interior and exterior installations with heavy traffic. SPEC MIX PMSBM can be used as a thick fortified bedding mortar for residential and commercial paving unit applications as well as the joint grout material between horizontal pavers. This preblended product contains portland cement, lime, sand a proprietary blend of polymers and high performance admixtures that meet ANSI and ASTM requirements.

MASONRY GROUTS



CORE FILL GROUT / COARSE

(CF-02) Item #19002

SPEC MIX Core Fill Grout / Coarse is a dry preblended material engineered to fill cells of concrete masonry units, horizontal bond beams and the cavities of composite masonry construction. SPEC MIX Coarse Grout contains portland cement, graded sand, 3/8-inch aggregate, and other proprietary additives formulated for superior flow and compressive strength meeting ASTM C 476 requirements for reinforced masonry construction.



CORE FILL GROUT / FINE

(CF-03) Item #19024

SPEC MIX Core Fill Grout / Fine is a dry preblended material engineered to fill cells of concrete masonry units, horizontal bond beams and the cavities of composite masonry construction. SPEC MIX Fine Grout contains portland cement, graded sand and other proprietary additives formulated for superior flow and compressive strength meeting ASTM C 476 requirements for reinforced masonry construction.

D2W WORKHORSE CONTINUOUS MIXING SYSTEM

D2W WORKHORSE

Item #25D900

The SPEC MIX D2W Workhorse Continuous Mixing System and Dust Collection accessory is powered by a standard 120V circuit so you can mix SPEC MIX products anywhere on site. Once plugged into power, connect the Workhorse to a steady water source then flip on the switch and start breaking bags of SPEC MIX products. This light-weight, highly mobile mixer cranks out up to 1.5 cubic yards of mix per hour or small batches to complete the job. When working indoor and outdoor, floor-to-floor, large projects or small, the D2W Workhorse is the system for high productivity and profitability.

LARGE CAPACITY HOPPER WITH BAG BREAKER

- Ideal for large projects
- Output - up to 1 pallet / hour (over 1 yd³ / hour)
- Mixes materials w/ 3/8 in or smaller aggregate

OPTIONAL DUST COVER

- Provides Dust-Free operation
- Easy installation
- Simple connection to a standard wet/dry shop vacuum (6 gallon/6hp motor required)

COMPACT & PORTABLE

- Weighs only 210 lbs (95 kg)
- Easy to set up, easy to move

SIMPLE CONTROLS & OPERATION

- Easy to use on/off toggle switch
- Tool-free clamp for ease of assembly and disassembly
- Easy, quick cleanout and low maintenance

DURABLE-DETACHABLE CART

- Ergonomic design for safety & mobility
- Robust construction for jobsite terrain
- Large, solid, maintenance free wheels
- Detaches from mixer for easy transport

LOW POWER REQUIREMENTS

- Plug into standard 120V wall outlet
- No electrician or rewiring needed

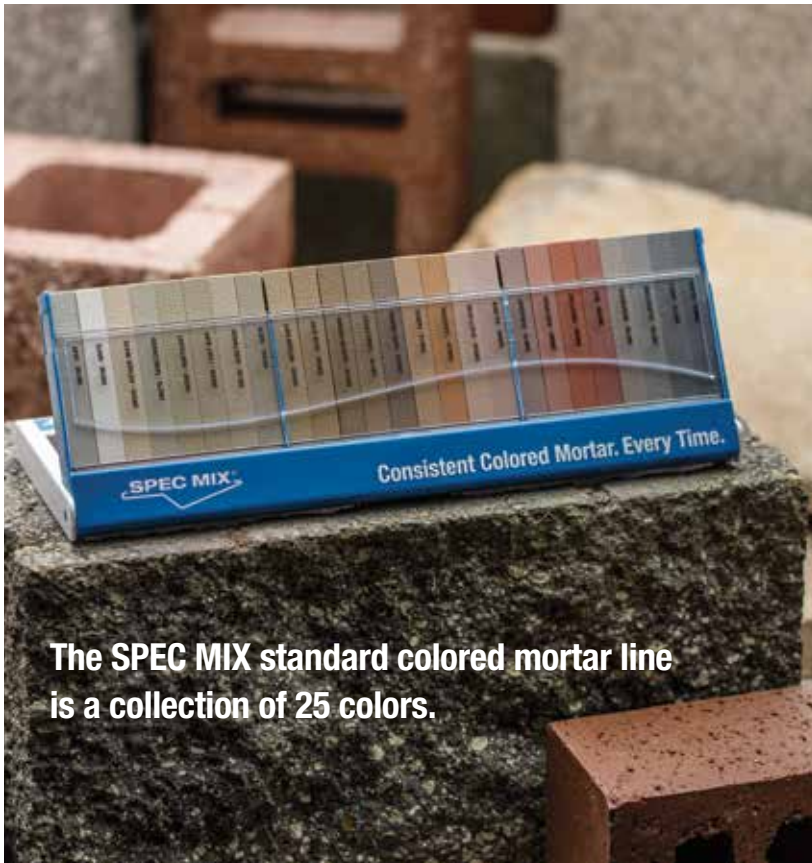
WATER FLOW VALVE

- Set and adjust water flow
- Valve and regulator eliminates the need to measure water



COLORED MORTAR

SPEC MIX COLORED MORTAR - 3 WAYS TO LOCK-IN CONSISTENCY



The SPEC MIX standard colored mortar line is a collection of 25 colors.

1 STANDARD COLORS

PREBLENDED COLORS

The SPEC MIX Standard Colored Mortar selection and Channel Color Kit is available throughout North America. You choose a color and we preblend your colored mortar mix in 80 or 3,000 pound bags.

2 CANISTER COLORS

1 CAN + 1 BAG = CONSISTENT COLOR

The SPEC MIX Color Canister System is perfect for any size project and it's simple! Just pick a color from the Channel Kit, then using your jobsite mixer add 1 Color Canister of pigment with 1 SPEC MIX 80 pound bag of gray mortar. Simply follow the "1 Can to 1 Bag Plan" for perfect colored mortar...every batch!

3 CUSTOM COLORS

PREBLENDED TO PERFECTION

Pick a color, any color and we'll accurately design, blend and bag your color of choice.



SILO SYSTEMS

SPEC MIX Silo Systems are available in numerous sizes and capacities for mobility and flexibility that optimize your mixing station. Decrease labor and product waste, increase safety and maximize productivity with a silo system specifically chosen for your project. We are your solution for every job!

D2W CONTINUOUS MIX



D2W CONTINUOUS MIXING - THE PORTABLE BATCH PLANT

Engineered for mortars or grouts, this high-output system mixes up to 8 yards per hour with no labor to deliver pure profitability.

TEN BAGGER



TEN BAGGER SILO - THE BIG PRODUCER

The large capacity, high production silo that keeps the biggest crews busy.

G7000



G7000 SILO - THE JOBSITE WORK HORSE

The original contractor tool for mixing daily production and man power.

PA4000 POWER AUGER



PA4000 POWER AUGER - THE POWERHOUSE

This low-profile system is easily loaded with small forklifts required for interior work and jobsites with low decks and tight spaces.

PA1000 POWER AUGER



PA1000 POWER AUGER - THE UTILITY TOOL

This pallet-sized silo offers bulk bag material savings and floor to floor mixing for efficiency.

TECHNICAL SUPPORT

CONTACT YOUR LOCAL SPEC MIX MANUFACTURER • VISIT WWW.SPECMIX.COM OR CONTACT SPEC MIX
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