



MASONRY AID #190

VISCOSITY MODIFYING ADMIXTURE FOR MASONRY

PRODUCT DESCRIPTION: *Specco Masonry Aid #190* is a neutral, biodegradable, liquid chemical additive that is designed to prevent or reduce bleeding, segregation, shrinkage and cracking that are commonplace in mortar, stucco, plaster and grout mixes. *Masonry Aid #190* may be used as direct or partial replacement of lime or in addition to lime, in mortar, grout and coating mixes. *Masonry Aid #190's* hygroscopic gelling action helps to provide a buttery mix and ensures complete hydration of the cement in hot weather. *Masonry Aid #190* reduces capillarity tube formation, efflorescence, hair-line cracks and increases bond strength. *Masonry Aid #190* eliminates surface streaking and intensifies color shades in mixes containing iron oxide colorants.

BENEFITS:

- Reduces water absorption
- Improves workability in hot weather
- Increases freeze thaw resistance and bond strength
- Enhances air content
- Provides uniform color
- Economical
- Non-toxic
- Non-corrosive

COMPOSITION: Medium viscosity proprietary gellant based solution. *Masonry Aid #190* does not contain any calcium chloride or intentionally added chlorides that would initiate or promote corrosion of reinforcement steel or contribute to efflorescence.

LEED RATINGS: MR Credit 5.1 Regional materials: 10% extracted, processed and manufactured regionally (within 500 miles of Kankakee, Illinois 60901).

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Weight per gallon:	8.28 +/- 0.25 lb./ gallon
pH:	8.0 +/- 0.5
Color:	Clear off yellow liquid
Viscosity –Brookfield:	4000 cps +/- 250 cps

TECHNICAL DATA: Independent laboratory comparison of mortar mixes specifically for Flexural Bond Strength and ASTM C-270 Conformance with addition of *Masonry Aid #190*. Tests run @ 70°F (21° C) ambient temperature.

MIX DATA:	CONTROL MIX:	MASONRY AID #190 MODIFIED MIX:
Huron Type N Masonry Cement	420.0 grams	420.0 grams
Mason Sand	1440.0 grams	1440.0 grams
Water	262.0 ml	262.0 ml
Masonry Aid #190	-	6.1 ml (=16 oz. / bag)

TEST RESULTS:	CONTROL:	MASONRY AID #190 MIX:
Water Retention (%):	86.3	80.0
Air Content (%):	12.0	15.7
Cone Penetration (mm):	51.0	61.0
Compressive Strength- 7 day (psi):	1410	1235
Compressive Strength- 28 day (psi):	1935	1910
Bond Strength - 28 day (psi):	95.7	103.6
Standard Deviation:	14.4	13.0
COV (%):	19.3	16.3





DIRECTIONS FOR USE: Reduce mixing water by the amount of **Masonry Aid #190** to be introduced to the mix. Mix mortar, stucco, plaster, grout or other cementitious coatings to the desired consistency. Add the required amount of Masonry Aid #190 to the mix to "tie up" the free water, producing a creamy mix consistency. Add **Masonry Aid #190** slowly at the tail end of the mixing cycle while agitating.

RECOMMENDED ADDITION RATES:

Mortar

- For a direct lime replacement to Portland cement mixes, add 32 oz. per bag of cement.
- For addition to Portland and lime mixes, add 16 oz. per bag of cement.
- For Masonry cement, add 16 oz. per bag of cement.

Stucco, Plaster, Grout and other cementitious mixes

- Add 8 oz. to 16 oz. per bag as needed.

CAUTIONS: **Masonry Aid #190** is compatible with most other admixture types; However they should be added separately to the mix to avoid any possible chemical interaction. **Masonry Aid #190** contributes to air entrainment levels. Keep from freezing. If frozen loosen cap, lid or bung and allow solution to thaw and mechanically agitate before using. The solution can then be used. Do not use pressurized air for mixing or agitation. **Masonry Aid #190** should be stirred before using if the material has set for an extended period (3 - 6 months).

GHS HAZARD RATINGS: WARNING: NONE

FIRST AID: Refer to product S.D.S. (Safety Data Sheet) for complete health and safety information before using this product. FOR MEDICAL EMERGENCIES ONLY –CALL INFOTRAC AT 800-535-5053.

WARNINGS: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES: HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

SHIPPING NAME: Concrete Admixture – Water base - Not regulated

SHIPPING CLASS: ITEM 33880, SUB 2, Freight Class 55

PACKAGING: 1 gallon (3.78 L), 5 gallon (18.9 L) pails, 55 gallon (208 L) drums, 265 gallon (1000 L) containers.

STORAGE: 40° to 90° F. Protect from freezing and excessive heat.

SHELF LIFE: 1 year properly stored

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