



# HERITAGE SANDSTONE RESTORATION MORTAR (HS60)

## Product Data Sheet

### Description and Use

HS60 is a natural repair mortar specifically formulated for the patching and restoration of sandstone. Designed to decrease significantly the time required to complete stone repairs, HS60 can be ready for sculpting in less than 3 hours at room temperature.

HS60 is a mineral-based, single component product that is mixed with water. It is formulated using only natural binders; no synthetic polymers or additives are used. HS60 has excellent freeze-thaw and salt resistance. It is vapor permeable. Skilled masons can easily apply HS60; no special certification is required.

Application and finishing of HS60 repair mortar is 8 to 12 times faster than for other commonly specified repair mortars. With HS60, most repairs can be completed within hours, greatly reducing labor, mobilization and staging costs. This can produce considerable savings, especially where a repair is challenging or access to the repair site is difficult. A typical repair using HS60 takes just 180 minutes. With a commonly specified repair mortar, the same job could take 1 to 2 days to complete, due to lengthy curing procedures and low maximum lift requirements. HS60 is specially formulated to allow build up to a thickness of 3” at one time. In addition, projecting elements and overhangs can be built out with ease using a temporary supporting shelf.

### Advantages of HS60

Can be applied in 60 minutes.	Does not create a vapor barrier.
Finished in 3 hours at room temperature.	Provides good freeze-thaw and salt resistance.

Manufactured using natural binders.	Easily used by skilled masons, no manufacturer’s certification required.
Contains no synthetic polymers or additives; contains no Portland cement.	With support, can be built up for large applications.
Mineral-based formulation and natural binders make it completely compatible with substrate.	Custom colors available.
Produces excellent adhesion to substrate.	

### HS60 Package

1-gallon plastic pails 9 lbs.  
 5-gallon plastic pails 44 lbs.  
 Available in Red, Buff and Brown  
 Custom colors available.

### HS60 Technical Data

Application Time:	Approximately 60 minutes after mixing - depending on temperature, relative humidity and type of finish specified.
Compressive Strength:	3 days 1,750 psi (ASTM C-109)
	7 days 2,600 psi (ASTM C-109)
	28 days 3,780 psi (ASTM C-109)
Bond Strength:	1,625 psi (ASTM C-882)
Flexural Strength:	1,233 psi (ASTM C-348)
Modulus of Elasticity:	1700 to 1850 ksi (ASTM C-469)
Porosity:	16%
Absorption:	12-16%
Linear	10.5 to 11.5 x 10 <sup>-6</sup> /oC

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Coefficient of Thermal Expansion:	
Length Change:	0.005 to 0.010 % (28 days) (ASTM C-157)
Specific Gravity:	1.6
Mixing Ratio:	Approximately 5 parts powder to 1 part water by volume
Coverage:	5 gallons (44 lbs.) will cover 6 square feet at 1" thickness or 0.5 cubic feet

hand or using a low-speed drill (300 to 450 rpm) for 2 to 4 minutes. Do not over mix.

**Build-Out Coat:** The consistency of the mortar for the build-out coat should be similar to wet sand. For any additional build-out coats use slightly less water in the mix. Working time is approximately 60 minutes depending on temperature, humidity and wind conditions.

### Surface Preparation

Cut away all loose and deteriorated stone. Clean the area to be repaired with clean water and a bristle brush to remove any loose stone particles. Neutralize any salt deposits (efflorescence) with distilled water. Sound off and chisel out delaminated stone. Dampen with clean water until glistening with no standing water. Square cut edges of repair area using hand tools or pneumatic carving tools. Repair area should not be less than 1/4" in depth when using HS60. (For patches less than 1/4" in depth, use HS15.)

### Mixing

All repairs require a minimum two-coat application consisting of a skim coat and a build-out coat. Additional build-out coats may be applied to meet the required thickness.

### Application

**Skim coat:** For the initial skim coat, mix approximately 5 parts dry powder to approximately 1 part potable water. The prepared mixture should be the consistency of peanut butter. Temperature and humidity will affect the amount of water required. Mixing may be done by

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