



HERITAGE LIMESTONE REPAIR MORTAR (HL60)

Product Data Sheet

Description and Use

HL60 is a natural repair mortar specifically formulated for the patching and restoration of limestone. Designed to decrease significantly the time required to complete stone repairs, HL60 can be ready for sculpting in 3 hours at room temperature.

HL60 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. HL60 has excellent freeze-thaw and salt resistance. It is vapor permeable. Skilled masons can easily apply HL60; no special certification is required.

Application and finishing of HL60 repair mortar is 8 to 12 times faster than for other commonly specified repair mortars. With HL60, 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 HL60 takes just 180 minutes at room temperature. 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. HL60 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 HL60

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

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| 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. | Standard colors include Indiana Gray and Buff with custom color matching available. |
| Produces excellent adhesion to substrate. | |

IG10 Package

1-gallon plastic pails 9 lbs.
 5-gallon plastic pails 44 lbs.
 Available in White.
 Custom colors available.

IG10 Technical Data

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| Application Time: | Approximately 60 minutes after mixing - depending on temperature, relative humidity and type of finish specified. |
| Compressive Strength (ASTM-109): | 3 days 2,180 psi |
| | 7 days 3,200 psi |
| | 28 days 4,360 psi |
| Bond Strength: | 1,508 psi (ASTM C-882) |
| Flexural Strength: | 1,581 psi (ASTM C-348) |
| Modulus of Elasticity: | 1900 to 2100 ksi (ASTM C-469) |
| Porosity: | 10% |

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| Absorption: | 10 to 15 % |
| Linear Coefficient of Thermal Expansion: | 3.6 to 4.6 x 10 ⁻⁶ /oC |
| Length Change: | 0.015 to 0.020 % (28 days) (ASTM C-157) |
| Specific Gravity: | 1.8 |
| 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 HL60. (For patches less than 1/4" in depth, use HL15.)

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.

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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