



HERITAGE RESTORATION MORTAR

Description and Use

IG10 is a cement based, high performance, injection grout designed to stabilize and repair historic masonry and concrete. The material is formulated to be injected into cracks ranging from 1/16" to 1/4" (1.5 to 5 mm). IG10 is a non-shrink grout with excellent bond strength.

IG10 is a cement based, single component product that is mixed with water. It is formulated using specialty cement; no synthetic polymers or additives are used. Skilled masons can easily use IG10; no special certification is required.

Advantages of IG10

- Gravity fed or pressure injected
- Deep penetration of cracks
- Excellent adhesion to substrates
- Contains no synthetic polymers or additives
- Does not create a vapor barrier
- Completely breathable material
- Non-shrink formulation
- Sets within 10 minutes at room temperature
- No segregation of material
- Custom colors available

IG10 Package

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

Injection Grout 10 IG

Cement Based Natural Injection Grout For Masonry & Concrete

IG10 Technical Data

Application Time:	Approximately 10 minutes after mixing - depending on temperature, relative humidity and type of masonry or concrete substrate injection.
Compressive Strength: (ASTM C-109)	28 days 7,300 psi
Tensile Bending Strength:	1,500 psi (ASTM C-882)
Viscosity:	600-1,000 cps
Specific Gravity:	2.0
Mixing Ratio:	Approximately 1 part water to 4 parts powder

Surface Preparation

Cut away all loose and deteriorated material. Clean the area to be repaired with clean water and a bristle brush to remove any loose particles. Neutralize any salt deposits (efflorescence) with distilled water. Dampen with clean water until glistening with no standing water. Set appropriate injection ports. Cap the cracks and seal the injection ports with the appropriate Heritage repair mortar.

Mixing

Mix approximately 1 part water to 4 parts powder. Temperature and humidity will affect the amount of water required. Mixing needs to be done by using a 450 rpm high-speed drill fitted with a ribbon blade. Add one-half the contents, mix for 1 minute, add the remaining material and vigorously mix for 2 minutes.

Injection Procedures:

Begin the injection at the bottom of the crack and work your way up the surface. The port is then sealed off and injection is started at the next port until the full length of the crack has been treated. Remove ports after curing and patch with appropriate Heritage repair mortar. Clean excess grout from wall surface as you inject.

Finishing

Finishing: The surface of the repair may be either tooled or scraped to the required finish. You may finish the same day or wait until the following day. For soft edges, carve the mortar when it is wet. For sharp edges, carve with sharp carving tools when it is partially cured. It may be desirable to wait longer for particular finishes. Always test finishing techniques before applying to large areas. Craftsmen should understand the timing of the finishing techniques, and make adjustments for weather conditions.

Curing Procedure: No procedures required.

Limitations of IG10

- Cannot be mixed or applied at temperatures below 40° F or above 90° F.
- Cannot be used to consolidate loose stone.
- Cannot be used with bonding agents.
- IG10 should be used for the full depth of the repair, because building out with another material other than IG10 may cause cracking of IG10.
- Cannot be re-tempered. (Mix only as much as you can use in 10 minutes.)

Clean Up

Remove injection grout from tools and mixing equipment with water immediately after use. Injection grout is difficult to remove after it has set.

Storage & Handling

Storage: IG10 injection grout should be stored in a dry location, at a temperature above 32° F. Product shelf life is one year in the original, unopened container.

Safety Recommendations: Precautions should be taken to avoid eye contact, prolonged skin contact and inhalation of dust during mixing. Protective eyewear and gloves should be worn while mixing and applying this product. A dust mask with NIOSH-approved silica dust filters/P-2 filters should be worn while mixing. For complete safety and handling information, see MSDS information. **Caution:** Not for human consumption. Keep out of reach of children and animals.

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