



Injection Grout 11Gi

Natural Cement-Based Micro-Injection Grouts & Adhesives

DESCRIPTION

ROSENDALE & TRANSLANTIC 11Gi are pre-packaged natural cement-based injection grouts and adhesives. Grouts based on natural cement have endured for more than 135 years, even under severe coastal and seawater immersion service exposures, and feature high vapor permeability, tenacious adhesion and low modulus of elasticity. Their primary use is for filling cracks and voids in masonry. **Rosendale & Translantic 11Gi**'s fineness, tenacity and flow characteristics also make them excellent general-purpose masonry adhesives.

ROSENDALE & TRANSLANTIC 11Gi grouts may be custom designed and produced to meet the special requirements of each project. Natural color or custom color-matching are available to provide aesthetic compatibility with original materials as well as long-term mechanical performance.

ROSENDALE 11Gi Natural Cement Injection Grout is *Made In The USA* from US and Canadian raw materials.

TRANSLANTIC 11Gi Quick-Setting Natural Cement Injection Grout is *Made In The USA* from US, Canadian and globally-sourced raw materials.

FEATURES

ROSENDALE & TRANSLANTIC 11Gi offer long-term performance features which are unique to natural cement products, including:

- **Controlled Initial Set:** Typical initial set time is 30-90 minutes for **ROSENDALE 11Gi**, and 10-30 minutes for **TRANSLANTIC 11Gi**. Setting time is prolonged at low temperatures and in mixtures containing higher proportions of water.
- **Moderate Strength:** Standard formulation develops compressive strength of approximately 1500 psi (10.3 MPa) at 28 days.
- **Flow:** Grouts are formulated to achieve high flow at moderate water addition levels, and ultra-fine particle size permits efficient flow into cracks down to 1 mm (1/24") in width.

Reduction of water addition level allows mixture to be adjusted to any desired working consistency for use as an adhesive or to restrict flow to larger openings.

- **Water Resistance:** Natural cement grouts withstand severe wind-driven rain exposures within a short time of application, facilitating installation. They are also suitable for water immersion.
- **Early Freeze Resistance:** Natural cement products that will not be subjected to freezing while saturated require only a relatively short period of protection from freezing, facilitating installation over the course of a much-extended working season in northern climates, as compared with lime and hydraulic lime products.
- **Low Modulus:** Unlike Portland cement and cement-lime grouts which tend to embrittle with time, natural cements continue to relieve stress and remain mechanically compatible with masonry substrates, even after more than a century of performance. **Rosendale & Translantic 11Gi** grouts provide long service life without cracking or delamination from masonry.
- **High Permeability:** **Rosendale & Translantic 11Gi** provide high rates of moisture vapor transmission, assuring that buildings and structures will “breathe”, and avoiding moisture entrapment.
- **Bond:** **Rosendale & Translantic 11Gi** develop tenacious bond to a wide variety of substrates, including most types of stone, masonry and concrete. Pull-Off adhesion >125 psi (0.9 MPa).
- **Non-Staining:** Na₂O equivalent of **Rosendale & Translantic** Natural Cements is <0.2%, making it suitable for use in limestone and marble structures.
- **Customization:** **Rosendale & Translantic 11Gi** grouts are produced on a made-to-order basis for each project, to meet the optimum performance levels of each application.

LIMITATIONS:

Cementitious grouts are not intended for use on dynamic cracks caused by structural behaviors such as ongoing settling, structural instability, thermal expansion or corrosion of embedded metals. Grouts are best selected and applied under the direction of an experienced grouting engineer.

APPLICATIONS:

- **Rosendale & Translantic 11Gi** grouts may be used for filling voids and cracks in historic concrete, stucco, masonry and stone.
- **Rosendale & Translantic 11Gi** may also be used as a general purpose masonry adhesive, for rebonding broken units, for setting Dutchman repairs or as a base coat for natural cement and lime plasters.
- **Rosendale & Translantic 11Gi** grouts may be used for repair of structural damages under the direction of a licensed professional engineer.

FORMULATION:

- **Rosendale & Translantic Natural Cements** are authentic natural cements produced from argillaceous limestone and conforming to the requirements of ASTM C10..
- **Mineral Fillers** incorporated in **Rosendale & Translantic 11Gi** grouts may also be customized to meet individual project requirements. Fillers are selected to match original materials as closely as possible in color and composition, and are finely pulverized natural materials.

GROUTING INSTALLATION:

Grouting procedures can vary considerably from one application to another. The following are some general guidelines:

1. Loose materials, such as unbonded masonry mortar, loose bricks or delaminated concrete must be removed and replaced prior to crack injection.
2. Injection holes should be drilled to enable delivery of grout to the full length and depth of the cavity to be filled. For transverse (perpendicular to surface) crack-filling and for void injection, injection holes are typically drilled into the face of the crack at a downward angle to a depth of ½ the masonry thickness. For filling of lateral cracks (parallel to surface, e.g., delaminating layers of sandstone or stucco), holes are generally drilled near the top and bottom of the area to be filled, beginning at the upper and lower corners and then every 3 to 9 inches along the upper and lower edges of the cavity. The lower row may be drilled square with the surface (at 90⁰ to the wall surface). The upper row of holes should be drilled at a downward angle.

For filling of voids with **Rosendale & Translantic 11Gi**, diameter of the holes drilled may vary with the intended method of grout delivery. For typical delivery by grout pump through ½” (12mm) pressure hose, a ¾” (18mm) hole is required.

For crack injection smaller holes may be drilled. ¼” (6mm) diameter holes are sufficient for grout delivery through 1/8” (3mm) diameter tubing.

3. Seal the face of the crack with temporary non-staining clay, sealant or mortar.
4. All crack and void cavities must be thoroughly flushed with clean water to remove as much dirt, debris and contaminants as possible and to pre-saturate the areas to be grouted. Continue flushing until clean water runs from the lowest port. A minimum of 20 minutes of pre-wetting should be performed prior to grouting. Repeat pre-wetting if either drying occurs prior to injection or if more than two hours elapse from the time of pre-wetting.
5. Some methods of grouting involve injecting from the lowest port, followed by plugging of the injection port once grout flows from the port above. Other methods involve injection from the upper port, plugging the lower port once grout begins to flow from the port. **Rosendale & Translantic 11Gi** products are compatible with a variety of good grouting practices and equipment.

Thoroughly mix the **Rosendale & Translantic 11Gi** product selected using a mortar mixer or slow speed drill. (250-450 rpm, “Jiffy” type mixing tool). Mixed mortar must be used before initial set, so mix only as much material as will be used within 10 to 30 minutes. Once material has begun to set, it should not be re-tempered or adjusted with additional water, but should be discarded.

Once the surface has been repaired, it must be maintained in a damp condition throughout its curing period. Consult Edison Coatings for curing guidelines for your specific project conditions.

ADHESIVE INSTALLATION:

Mix with water to the desired consistency and apply to clean, dampened substrates by brush, roller, trowel, caulking gun or sprayer.

Rev. 1/2015



3 NORTHWEST DRIVE, PLAINVILLE, CT 06062 USA
PHONE: (860) 747-2220 or (800) 341-6621
E-MAIL: edisoncoatings@outlook.com
INTERNET: www.rosendalecement.net

Edison Coatings, Inc. makes no warranties, express or implied, as to the accuracy or completeness of any of the information contained herein. This publication is offered on a complimentary basis as a service to potential customers or specifiers. While every effort has been made to include complete and accurate information, based on data and information believed to be reliable, it is the sole responsibility of the user to determine its suitability for his own intended use and purposes. Nothing contained herein shall be construed as a warranty or guarantee of any product, process or any other recommendation stated herein. Edison Coatings, Inc. assumes no responsibility for advice given, results obtained, or for any damages whether incidental or consequential, which may be incurred as a direct or indirect result of the use of this information. By proceeding to use this information, user acknowledges and agrees that he is doing so at his own risk, and user indemnifies and holds Edison Coatings harmless against any liabilities, costs or expenses resulting therefrom. All product sales are further governed by the Edison Coatings, Inc. CONDITIONS OF SALE. Product formulation and performance properties are subject to change without notice.