REC GROUT 716

NON-SHRINK, NON-METALLIC GROUT

DESCRIPTION

REC GROUT 716 is designed for critical use where high strength, non-staining characteristics and positive expansion are required. It contains only natural aggregate and an expansive cementitious binder.

PRIMARY APPLICATIONS

- Pre-cast panels
- Structural supports

FEATURES/BENEFITS

- Non-staining natural aggregate for better appearance
- Non-shrink provides full structural support
- Extended working time in warm weather
- High strength and durability
- Appearance similar to concrete
- Does not contain any added chloride ions

TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 75oF (24oC), 50% RH

Property	Result
Plastic Consistency	0.75 gal water/50 lb bag (2.8 L/22.7 kg)
Flow Rate (flow table) ASTM C 939 & CRD C 621	140% flow
Compressive Strength ASTM C 109 Modified see ASTM C 1107 Section 11.5	1 day: 4,000 psi (27.6 MPa) 3 days: 5,800 psi (40.0 MPa) 7 days: 6,800 psi (46.9 MPa) 28 days: 8,000 psi (55.2 MPa)
Expansion CRD C 621	3 days: 0.03% 7 days: 0.06% 14 days: 0.07% 28 days: 0.07%
Setting Time ASTM C 191	Initial Set: 40 minutes Final Set: approximately 1 hour

Appearance: REC GROUT 716 is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten up substantially as the concrete cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

PACKAGING

REC GROUT 716 is packaged in (25 kg) bags and yields 0.42 ft3 (0.012 m3) of plastic grout when mixed with (3 L) of water.

SHELF LIFE

2 years in original, unopened package.

SPECIFICATIONS/COMPLIANCES

- Meets the requirements of CRD C 621, Corps of Engineers specification for non-shrink grout.
- Shows positive expansion when tested in accordance with ASTM Specification C 1090, Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout.
- Meets the performance requirements of ASTM C 1107, combination volume adjusting grout standard

specification for packaged dry, hydraulic-cement grout (non-shrink).

DIRECTIONS FOR USE

If the contractor is not familiar with standard grout placement techniques, a pre-job meeting is suggested to review the project details unique to the particular job. Contact your local Reckon Chemical Company representative for additional information.

Grouts generally work best at 50oF to 80oF (10oC to 27oC). Cold weather retards strength gain and set time. Hot weather accelerates setting time and causes premature drying of the grout. Provide heating or cooling, as necessary, to compensate for extremes in ambient temperatures and resulting variations in cure time.

Surface Preparation: Surfaces to be grouted should be clean and free from rust, grease or oil. Determine work schedule and method of placing grout, then prepare strong, properly braced and oiled forms to retain the grout and provide relief holes, if needed. Saturate the area to be grouted with water until it is uniformly damp and remove excess water just before placing the grout.

Mixing: Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 50°F to 80°F (10°C to 27°C). Add the appropriate amount of clean, potable water for the batch size and then add the dry grout. Mix for a minimum of 2 to 3 minutes. The mixed grout should be quickly transported to the grouting site and placed immediately. Consistency Estimated Water ContentPlastic (3 L/25 kg)

Placing: If placing this product in hot weather, the use of cold water will increase the working time.Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the grout. Cure the grout with a high solids curing compound.

PRECAUTIONS/LIMITATIONS

- Do not add any admixture or fluidifiers.
- Proper curing is required.
- Employ cold weather or hot weather grouting practices as the temperatures dictates.
- Store materials in a dry place.
- Do not allow to freeze until 4000 psi (27.6 MPa) is attained.
- Do not use as a topping.
- Do not use material at temperatures that may cause premature freezing.
- Rate of strength gain is significantly affected at temperature extremes.
- In all cases, consult the Safety Data Sheet before use.

CLEAN-UP

Clean tools and equipment with water before the material hardens.