REC INJECTION GROUT 710

HIGH PERFORMANCE INJECTION GROUT

DESCRIPTION

Rec Injection Grout 710 is formulated to produce a pumpable, non-shrink, high strength grout. It provides unparalleled corrosion protection for steel cables, anchorages and rods. Rec Injection Grout 710 is extremely fluid, and cured grout is similar in appearance to concrete. Rec Injection Grout 710 exhibits thixotropic properties defined in PTI specifications, and can be used to repair previously grouted cables.

PRIMARY APPLICATIONS

- Interior and exterior applications
- Anchoring bolts in concrete slabs
- Hand rails & posts
- Reinforcing rods
- May be extended with pea-gravel for larger areas
- Injection of cracks,joints,gravel mpatches and cavities in vertical and horizental positions

FEATURES/BENEFITS

- Superior corrosion protection
- High fluidity for easy placement
- Non-shrink
- Exceptional strength
- Aggregate free
- Pumpable for a minimum of 2 hrs @ 90oF (32oÂÂC)

TECHNICAL INFORMATION

Property	Result
Flow Rate ASTM C 939 modified	@ 1.5 gal/50 lb (5.7 L/22.7 kg) mix water (unless otherwise noted)9 to 20 seconds initial flow
Initial Setting Time at 70°F (21°C) ASTM C 953	9 to 30 seconds at 30 minutes 8 to 12 hours (depending on material and ambient temperature)
Compressive Strength ASTM C 942	7 days: > 3,000 psi (20.7 MPa) 28 days: > 7,000 psi (48.3 MPa)
Hardened Height Change ASTM C 1090	24 hours: 0.0% to 0.1% 28 days: 0.0% to 0.2%
Plastic Expansion ASTM C 940	0.0% to 2.0% for up to 3 hours
Wick Induced Bleed ASTM C 940 Modified according to C.4.4.6.1 of the PTI	0.0% at 5 minutes 0.0% at 3 hours
Guide Specification Schupack Pressure Bleed Test @1.5 gal/50 lb (5.7 L/22.7 kg) mix water	0.0% (5 minutes @ 100 psi)
Schupack Pressure Bleed Test @1.7 gal/50 lb (6.4 L/22.7 kg) mix water	0.0% (5 minutes @ 50 psi)
Chloride Permeability ASTM C 1202	28 days (30V for 6 hrs): < 2,500 coulombs

*Tested under laboratory conditions with a

30 second re-mix prior to measuring the flow. Rec Injection Grout 710 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 grout cures, the grout may always appear somewhat darker than the surrounding concrete

PACKAGING

Rec Injection Grout 710 is packaged in (25 kg) bags or pails and yields 0.54 ft^3 (0.015 m^3) of fluid grout when mixed with 1.5 gal (5.7 L) of potable water. Yield is 0.56 ft^3 (0.016 m^3) when mixed with 1.7 gal (6.4 L) of potable water.

SHELF LIFE

**Rec Injection Grout 710 is Made To Order (MTO) and has a 10 day lead time. It has a 6 month shelf life in the original, properly stored, unopened package.

DOSAGE

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. Refer to the PTI Guide Specification for Post-Tensioned Structures for proper mixing, pumping and placement practices. Mixing: Consistency Estimated Water Content* Fluid 1.5 to 1.7 gal/50 lb (5.7 to 6.4 L/22.7kg) Flowable 1.3 to 1.5 gal/50 lb (4.9 to 5.7 L/22.7kg) * Do not add water in an amount that will cause bleeding. Do not add aggregate or cement to the grout since this action will change its precision grouting characteristics. Curing and Sealing: Cure all exposed grout by wet curing for 24 hours, then with a high solids curing and sealing compound.

PRECAUTIONS/LIMITATIONS

• To minimize bleeding in vertical applications greater than twenty feet, The Reckon Chemical Company recommends a water dosage no greater than 1.50 gal/50 lb (5.7 L/25 kg). • Clean tools and equipment with water before the material hardens. • Do not add any admixture or fluidifiers. • Do not use any more or less water than what is specified above. • Store materials in a dry place. • Application temperature must be 40o F (4o C) or above and remain so for 24 hours after placement. • Employ cold weather or hot weather grouting practices as the temperature dictates. • Rate of strength gain and setting times are significantly affected at temperature extremes. • The Reckon Chemical Company is not responsible for corrosion caused by ingredients in the flushout, saturation, or mixing water, or for contaminants either in the space being grouted or from other materials used in the system. • In all cases, consult the Safety Data Sheet before use.