

Wind Tower Grouting System



SPECCHEM
Solution to Service

“We Have Concrete Covered”



SpecPoxy Grout GREEN CONSCIOUS

High Performance/High Strength Epoxy Grout

A specially formulated three component, 100% solids, high strength, low exotherm epoxy grout. The system combines a high strength epoxy resin and curing agent with a specially engineered blend of graded aggregates. The special aggregate blend provides excellent flow and uniform distribution throughout the high strength epoxy matrix. The low exotherm epoxy resin allows a long work time and deep pour capabilities.

BioStrip WB GREEN CONSCIOUS

100% biodegradable water based form release agent

A 100% natural organic chemically reactive release agent. Ideal for sensitive environmental situations such as bridge formwork over rivers and streams or potable water reservoirs. BioStrip WB provides quick, easy release and leaves an architectural bondable concrete surface.

Pave Cure Rez White GREEN CONSCIOUS

High solids white pigmented water-based, resin-based concrete curing compound

A high solids water-based, resin-based white pigmented concrete curing compound. When properly applied, Pave Cure Rez White forms a continuous membrane that controls curing for strong and durable concrete. The white pigment reflects the sun's rays to help keep the concrete surface cooler and to prevent excessive heat build-up.

Orange Peel GREEN CONSCIOUS

Biodegradable citrus based solvent and degreaser

An innovative solution for the toughest industrial applications. Orange Peel will effectively remove grease, grime and other contaminants from architectural concrete and other surfaces. Orange Peel can be used safely and effectively in a wide range of applications, eliminating the need to stock multiple cleaners. Standard harsh cleaners and degreasers are made from chlorinated solvents or hydrocarbon solvents that can be hazardous to use and to dispose of. Orange Peel is V.O.C. compliant with a pleasant citrus odor.



Mixing Instructions

Air, material, and surface temperatures must be a minimum of 40°F prior to mixing or installation. To assist with mixing and dispensing, precondition material to 75°F. For bulk applications, mix three parts of Part A and one part of Part B by volume for three minutes with a low speed drill motor using a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life. Slowly add Part C (aggregate) and mix for an additional 2-3 minutes. Maximum yield is achieved by mixing in all the Part C aggregate.

High Flow Applications

Reduce the amount of aggregate up to 25% by weight to create a more fluid grout consistency for difficult placements.

Surface Preparation

Surfaces to be grouted must be clean, dry and structurally sound. Remove all oil, grease, dirt, laitance, and any other foreign matter and profile the surface by sandblasting, mechanical abrasion removing any residue with an oil free compressed air.

Placing

The mixed grout should be poured continuously and in such a manner as to provide full and complete contact with base plate, free of air voids. Strapping will facilitate moving the grout into position. Grout should be placed at a minimum of 1.0" thick up to a maximum of 18" thick per lift in a large mass. Full aggregate extension must be used for large applications in excess of 6" deep. Anchor bolt holes should be dry and free of all dust and debris before grout placement.

Limitations

Always test a small amount of SpecPoxy Grout to verify that the product has been thoroughly mixed and will harden properly before proceeding. Do not thin with any solvent. Surface and air temperatures must be a minimum of 40°F for application. Recommended application temperature is 55°F to 95°F. Higher temperatures will shorten work time and could limit pour volumes. Deep application (over 6") require full aggregate extension.

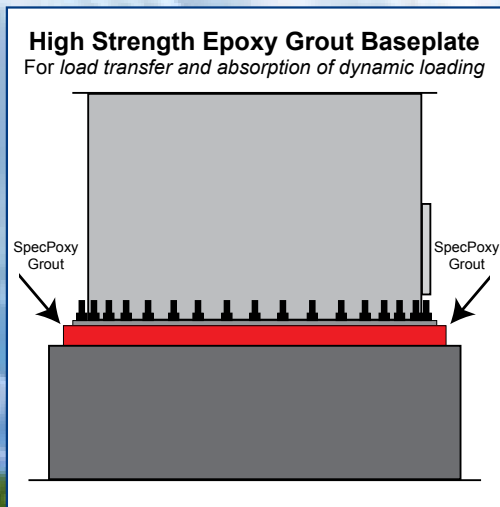
SpecPoxy Grout

High Performance/High Strength Epoxy Grout

SpecPoxy Grout is a high performance epoxy system engineered to support equipment requiring precision alignment. What separates SpecPoxy Grout from its competition is its proprietary blend of aggregates coupled with a low exotherm resin resulting in an epoxy grout that has precision pour and deep pour capabilities.

Benefits

- Proprietary blend of aggregates allows precision pours to maintain a minimum of 95% EBA
- Superior chemical and abrasion resistance
- Excellent coefficient of thermal exposure resulting in unparalleled volume stability
- Can be applied 18" in a lift when fully extended
- High early strength for minimal down time
- High compressive, bond and tensile strength for applications with extra load transfer and dynamic loading
- Premeasured proportions for an easy installation
- Reaches over 14,000 psi



SpecPoxy Grout



Typical Properties at 72°F	
Bond to Concrete	Concrete failure
Chemical Resistance	Excellent resistance to most industrial chemicals
Abrasion and Impact Resistance	Greater than concrete
Laboratory Tests	Normal Set
C 307 Tensile Strength	2,600 psi
C 580 Flexural Strength	5,600 psi
C 580 Modulus of Elasticity	2,000,000 psi
C 882 Bond Strength	3,600 psi
C 531 Linear Shrinkage on cure	0.005%
C 531 Coefficient of Thermal Expansion	18×10^{-6} in/in/°F
D 2240 Shore D Hardness	95
C 905 Density	144 lbs/ft ³ (2,300 kg/m ³)
Pour Depth at 75°F	Up to 18 inches
Typical Properties at 72°F	
Effective Bearing Area (EBA)	≥ 95%
Creep, ASTM C 1181, 1 Year 400 psi @ 140°F	0.5×10^{-3} in/in
Compressive Strength - 1 day	9,500 psi
Compressive Strength - 7 days	13,300 psi
Compressive Strength - 14 days	14,650 psi
Working Time at 70°F (21°C)	36 minutes



- Tilt Up Concrete Association
- Concrete Foundation Association
- The American Institute of Architects
- American Concrete Pavement Association
- American Society for Testing and Materials
- International Concrete Repair Institute

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