FIBGROUT-H3G

Epoxy Grout System for Equipment Bases

DESCRIPTION

Fibgrout-H3G is a high strength epoxy grout designed for grouting of machine and equipment bases of all types, formulated to be used in both thin and thick sections. Fibgrout H3G is suitable for grouting bases of numerous configurations. This shrinkage free formula gives excellent strength and resistance to many corrosive chemicals. Fibgrout H3G provides excellent bond to foundation and provides maximum bearing for long lasting grouting projects.

AREAS OF APPLICATION

- Pump, compressors and fans
- Deep fill machine bases
- All high strength applications including crane rails
- Tanks, turbines and housings
- Large anchor bolts and keyways
- Fertilizer petrochemicals industries, etc
- Corrosive industries

FEATURES & BENEFITS

- Non shrink, free flowing.
- Fast setting/quick return to service
- High chemical resistance
- Excellent bearing
- Excellent bond foundation to base plate
- Stable in deep or thick sections

TECHNICAL SPECIFICATIONS

The following results were developed under laboratory conditions.

COMPRESSIVE STRENGTH : (50 MM) CUBES

Age	Strength
24 hours	550 kg/ cm2
3 days	740 kg/cm2
7 days	820 kg/cm2
28 days	900 kg/cm2

LINEAR SHRINKAGE

3 days	**0.013%**
7 days	**0.013%**
28 days	**0.013%**

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LINEAR SHRINKAGE

Exceeds tensile and shear strength of concrete.

IMPACT RESISTANCE

Greater than concrete.

CHEMICAL RESISTANCE

Excellent resistance to most chemicals. Specific recommendations available upon request.

ABRASION RESISTANCE

Greater than concrete.

CONSUMPTION/YIELD

1950 kg/m3

FLEXURAL STRENGTH

Age	Strength
1 day	240 kg/cm2
3 days	250 kg/cm2
7 day	260 kg/cm2
28 day	270 kg/cm2

TENSILE STRENGTH

1 day	140 kg/cm2
28 days	140 kg/cm2

GEL TIME at 30oC

45 - 60 mins

APPEARANCE

Fibgrout -H3G is three part epoxy grout system which consists of Part A (resin), Part B (hardener) and Part C (aggregate). After mixing and placing the colour is similar to that of concrete though the grout may always appear somewhat darker than the surrounding concrete.

APPILCATION METHODOLOGY

SURFACE PREPARATION

New concrete must be a minimum of 28 days old. The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically, which will give a surface profile of exposing the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry.

NOTE: Even with proper procedures, an acid etched surface may not provide a strong a bond as mechanical preparation procedures. All concrete must possess an open surface texture with all curing compounds and sealers removed.

FORM PREPARATION

Forms must be liquid tight to prevent leakage, and they should be strong and well braced. To facilitate stripping, the forms should be coated with two applications of paste or each piece wrapped with polyethylene.

ANCHOR BOLT HOLES AND BLOCKOUTS

Holes and blockouts should be cleaned of all dust, dirt and debris and allowed to dry. If the sides are smooth roughen the hole with a stiff bristle wire brush or with rotary brush hammer if access permits.

MIXING

Mix Parts A & B (resin & hardener) for 2 minutes using a drill and mixing prop. For ease of mixing, add the Part B to the Part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction. After the epoxy has mixed, add the Part C (aggregate) and mix for 2 - 3 min. until the aggregate is completely wetted out. For large jobs, use a mortar mixer for

PLACEMENT

Pour into anchor bolt holes and blockouts through funnel or directly if space permits. When grouting plates, pour grout into the head box and allow to flow under the plate. Straps preplaced under the plate will aid in working the grout across. Grout should be placed at a minimum of 25 mm thick and a minimum of 152 mm per lift when placed in a large mass.

NOTE : Bring all Fibgrout H3G materials as well as foundation and baseplate as close to room temperature as possible. Cold temperatures will significantly reduce flow characteristics and will increase the difficulty of baseplate grouting. Higher temperatures will increase initial flow but cut down on working time.

CURING

Fibgrout H3G requires no special curing procedures.

FINISH

If a smooth finish is desired, the surface of the grout may be brushed and troweled with a light application of Shalimar solvent.

CLEAN-UP

Tools and mixer may be cleaned with Fibrex Solvent, Xylene or ketone solvents.

PRECAUTIONS

- Wear protective gloves and eye glasses when handling epoxies.
- Do not use over frozen concrete.
- Store material at room temperature before use.
- Grout should be placed at ambient temperatures of 4o to 32oC to ease the application.

STORAGE

Store in a cool, dry place.

PACKAGING

5,20kg & Project Standard