

BC Tight grout

Product Description:-

BC Tight grout is a two part pre-weighed polyester resin based grout. After setting, this grout yields consistent physical properties like compressive strength, shear strength etc and it can be used where the annulus space is between 10 and 40mm. BC Tight grout is fast setting, and it rapidly achieves load bearing and bond strength.

BC Tight grout - OH is designed to have thixotropic consistency meant for overhead applications.

Primary applications:

Anchor bolts for foundations.
Hand rails
Posts
Railway tracks
Reinforcement dowelling for abutments.
Ground anchors for towers, cranes.

Features & Benefits:

Fast and controlled setting time.
High early strength
Can be used in under water applications.
Non-expansive
Vibration resistant
Easy to use – economical and fast.
Excellent adhesion to most building materials.

Bar preparation:

All bars should be degreased and all flakey rust removed.

Mixing:

A complete pack of resin and catalysed filler should be mixed in one operation. Mixing may be carried out manually or mechanically. When a smooth, even consistency is achieved the grout is ready for use and should be placed well within the gel time. Packs have been designed to produce practical and economic volumes of grout.

Installation:

Using the calculated volume of grout based on Table 1, the grout should be poured steadily into the prepared holes. The anchor bar is then pressed into the hole to the required depth. Slight agitation of the bar will assist in achieving a complete bond.



Technical properties:

Gel time at 30°C. - 40 minutes.
Compressive Strength
1 day - 90 MPa
3 days - 105 MPa
Ultimate - 110 MPa
Tensile Strength
Ultimate - 15 MPa
Adhesion to
sound concrete - in excess of tensile strength of concrete
Chemical resistance - The cured grout is resistant to fresh
and salt water,
petrol, oil, grease
and most acids
Alkalis and solvents.

Directions for use:

Parameters of anchor design
 Strong anchors can be created due to high strength of BC Tight grout The ultimate strength is determined by strength of substrate, embedment length of resin to bar, type of hole preparation, type length of resin to bar, type of hole preparation, type and dimension of bar.

Typical Load attained
Concrete : 20 N/mm ² unreinforced
Bar : Deformed rebar to BS 4449
Hole : Air flushed rotary Percussive driller

Hole Preparation and formation:

Optimum performance of BC Tight grout requires rough sided, dust free holes. Use of rotary requires rough sided, dust free holes. Use of rotary percussive drills with air or water flushing is recommended. Diamond drilled holes should be under reamed unless necessary safety factors are incorporated. Cast holes should preferably be inverse dovetail configuration If parallel sided holes are casted they should be roughened to provide adequate keying.

