BUILDING CHEMISTRY INDUSTRY

Product Data Sheet

BC PE Grout

2-component polyester resin anchor grout

Description

BC PE Grout is a two-component, polyester resin based, anchoring grout.

It consists of a low viscosity polyester resin plus a catalysed filler.

The two components are mixed to produce a filled resin grout, which may be poured or pumped into suitably prepared anchor holes.

The mixed grout is coloured dark grey and is used for downward facing holes where the hole diameter is up to 25mm greater than the bolt or bar diameter.

The Product is used for the fixing of steel bolts into pre-drilled holes within concrete, rock, brickwork, stonework, masonry and other substrates capable of supporting the required load.

Available in both winter and summer formulations, giving a wide range of application temperatures.

Uses

BC PE Grout may only be used by experienced pro fessionals.
The Product can be used with the following:

Base plates.
Rail tracks.
Starter bars and dowels.
Safety fences and balustrades.
Reciprocating machinery.
High impact loads.

Features

Rapid setting.
High early strength gain.
Pre-batched for ease of mixing.
Corrosion resistant.
Non-shrink.
Tested in accordance with the relevant parts of BS 6319 and BS 5080.
Winter and summer grades available.

Product information

Packaging	4.415 kg pail (A+B)
Shelf life	18 months from date of manufacture
Storage conditions unopened original	Store properly in dry conditions in undamaged and sealed packaging. Storage at high temperatures or high humidity may re- duce the shelf life.
Appearance and colour	Dark grey when mixed
Density	~1800 kg/m³

Technical information

Compressive strength	2 hours	~40 N/mm²
	1 days	~80 N/mm²
	7 days	~95 N/mm²
Modulus of elasticity in compression		~16 kN/mm² at 7 days
Tensile strength		~17 N/mm² at 7 days

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Important considerations

BC PE Grout may be placed at temperatures between 5°C and 35°C. Use in structural situations at temperatures above 60°C is not recommended.

(mm)	**(tonnes)**
100	3
200	8
400	16
600	24

**Deformed bar to BS 4449 in unreinforced 20 N/mm² concrete, holes drilled by rotary percussive*

method on air flush.

Parameters Controlling Uniaxial Pull Out Load:

Type and strength of base material.
Length of resin anchor bond.
Hole forming or drilling method.
Type of fixing, bolt or bar.

Application instructions

Substrate quality / pre-treatment

Holes should be drilled using rotary percussive drills with air or water flush.
The drill bit should be of the integral type with an elliptical head.
Holes which are dia mond cored should be under-reamed or roughened.
Holes which are drilled with a rotary percussive non- flushing drill bit should be cleaned using a steel rotary brush.
Loosened dust should be blown out of the hole using compressed air through an extension tube reaching to the bottom of the hole.
Cast holes should taper so that the hole diameter is smaller at the mouth than the bottom.
Steel bars used for anchoring should be deformed such as those manufactured to BS 4449.

Mixing

Place contents of resin can into a plastic container or pail. Slowly add catalysed filler whilst mixing. Continue mixing until a uniform colour is achieved (approxim- ately 2 minutes). Correct mix proportioning must be used to achieve the designed anchor strength.

Application

Pour mixed grout into prepared holes, rodding if ne- cessary to ensure grout flows to the bottom of the hole. Once grout has been placed insert bar into hole and gently twist and press home to the required depth. The bar should be left undisturbed until the grout has hardened.

Cleaning of equipment

Clean all tools and application equipment with Sika® Thinner C Cleaner immediately after use. Hardened / cured material can only be removed mechanically.