

TECHNICAL DATA SHEET

ANCHOR GROUT AG 100



PRODUCT DESCRIPTION

Anchor Grout Is Synthetic Resin based Grout Material Suitably blended with a hardening compound and fillers and supplied as a pre measured, two part, resin grout. After hardening, the grout has high mechanical properties. Anchor Grout is used where the difference between the hole diameter and bar diameter is ≤ 25 mm

FEATURES & BENEFITS

Rapid strength Gain, Vibration resistant, Corrosion resistant, Non expansive, Can be placed under water.

PRODUCT USES

Anchor Grout is used for high strength corrosion resist anchoring of bolts and bars from 12 – 25 mm diameter in to concrete, rock, masonry or brickwork where high speed of installation & early application of load is required.

Permanent installation of reinforcement starter bars, foundation bolts, base plates, barriers and safety fences, railway tracks, tieback anchors, reinforcement dowelling abutments, ground anchors for towers, cranes, dock sills, stainless steel hand railings and pilers,

PERFORMANCE PROPERTIES

Property	Unit	Specification
Colour	-	Dark Brown
1Pot life @25 °C	Minutes	10 - 15
Mix Density @25 °C	W/W	1.9 – 2.0 g/cc
Consistency		Flow able

COMPRESSIVE STRENGTH

After the minimum time required before loading the grout typically attains a 2 compressive strength in excess of 20N/mm and 2 ultimate compressive strength of 70N/mm in 7 days (50mm X 50mm 50mm) when tested as per BS 6319 Part 2” 1983

Get Time Temperature	Get Time Min.	Min Time Required Before Loading Hrs.
20	80	7
30	40	3
40	15	1

$$\text{Minimum hole Depth (mm).} = \frac{0.6Y}{Spd^2} \times \frac{P(d1)^2}{4} = \frac{0.15Y(d1)^2}{Sd^2}$$

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Where -

Y is Characteristic yield strength of steel (460 N/mm^2)

S is permitted shear stress in concrete (N/mm^2)

d1 is bar diameter (mm)

D2 is hole diameter (mm)

These Formula is used typically as shown in below:

MINIMUM HOLE DEPTH

Characteristic Concrete Strength (N/mm^2) : 20 25 30 >40

Permitted concrete shear stress using
type One Bar N/mm^2) : 1.8 2.0 2.2 2.5

Bar dia.mm	Yield(tons)	Hole Dia	Min. hole depth (mm)			
12	5.2	20	280	250	225	200
16	9.3	20	490	445	400	355
20	14.5	25	615	555	500	440
15	22.6	32	750	675	615	540

APPLICATION PROCEDURE

Hole Preparation and formation

Optimum performance of Anchor Grout 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 sides holes are cast they should be rough to provide adequate keying.

Bar preparation

All Bars should preferably be de – greased and all flaky rust removed.

Mixing

A Complete pack of resin and catalysed filler should be mixed in one operation. Mixed in one operation. Mixing may be carried out mechanically. When a smooth, even consistency is achieved the grout is ready for use and should be placed well within the gel time of the grout (See properties) Packs have been designed to produce practical and economic volumes of grout. Do not attempt to mix partial pack components.

Installation

Using the calculated volume of grout based on the below table, the grout should be poured steadily in to 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, the bar should then be left undisturbed in the required position until the resin is set. Estimation table indicates volume of anchor Grout Synthetic Resin grout in $\text{cm}^3/100\text{mm}$ Bond

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Hole Dia	Hole Dia. 12	Bolt Dia. (mm) 16	20
20	20		
25	25	40	25

These figure allow for a 25% wastage factor. If th anchor is in very old concrete, masonry or brickwork the wastage factor should be increased,

No of bolts/200 mm deprh hole which can be fixed using a 2.5 liter pack of Anchor Grout.

Hole Dia	Hole Dia. 12	Bolt Dia. (mm) 16	20
20	20		
25	25	40	25

CLEANING

Immediately after application of anchor Grout, Clean the tools, equipment and the mixing container using solvents like Bostik Thinner E, otherwise, removal of dried/hardened mortar is difficult.

PACKING : 30 kg Resin & 70 kg Cementous Hardener Powder

STORAGE & SHELE LIFE

Anchor Grout as sunlight shall be stored in a cool & dry place away from sunlight,& high humidity & have a Shelf in the Original Packing.

PRECAUTIONS

Fire resistance and creep

At operating Temperature above 40 c, the creep of Anchor Grout Synthetic resin under load may become significant. Resin anchor should not be used where structure load bearing performance has to be maintained in anchors subjected to fire conditions.

HEALTH & SAFETY

Confined areas must be well ventilated and no naked flames allowed. Contact with the skin should be avoided as certain sensitive skins may be affected by contact with the Synthetic resin. In such cases if contact with the resin occurs, the skin should be washed immediately with soap and water & not solvent. Gloves & barrier creams should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

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