

Anchor Grout Datasheet

November 2017

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Anchor Grout is a rapid set ready-for-use (merely add water) Portland cement-based grouting compound. It contains chemical reagents which prevent shrinkage during curing.

Technical Data

Type	Rapid set OPC based grout
Colour	Grey
Pot life	10 minutes
Working time after mixing	10 to 15 minutes
Initial set	30 minutes
Mixing water temperature	10°C to 25°C
Application temperature (ambient)	5°C to 25°C
Substrate temperature	5°C to 25°C
Min application thickness	50mm between bed and machinery base plate. 25mm for cavities and holes etc. 3 times bolt diameter for grouting anchor bolts.
Max application thickness	100mm when extended using aggregates. Aggregate size should be 25% to 30% of desired fill depth
Density	1.250kg/litre
Protection during application	Use sun and wind barriers

Purpose

Bedding - column base plates, machinery base plates, bearing plates, crane rails.

Grouting - anchor bolts, cables, starter bars, top steel.

Repairing - cavities in concrete.

Benefits

- It rapidly develops a consistency that makes it easy to place.
- Remains cohesive and does not segregate.
- Does not shrink.

Limitations

A minimum clearance of 50 mm is required between bed and machinery base plates. For smaller cavities etc. where the flow will not be restricted, a limited minimum thickness of 25mm is recommended. When grouting anchor bolts, three times the bolt diameter is necessary.

Storage

Anchor Grout can be stored for up to 12 months after date of invoice when stored in sealed bags in a dry cool area off the floor.

Cemcrete provides a comprehensive technical service based on over 3 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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Site work

Surface preparation

Provision for the escape of entrapped air must always be made. Contact surfaces must be clean, sound, no traces of dust or any form of laitance whatsoever nor any and shutter release oils etc. Concrete surfaces must be thoroughly pre-wetted but excess surface water (free water) must be removed prior to placing the grout. Surface temperatures should not be less than 5°C. Always ensure that the shutters are watertight and sealed to prevent suction of water from the product. Ensure that the grout delivery head is of adequate height in order to accommodate the distance the grout must flow. Always pour from one side thus ensuring that the grout fills the void without entrapping air.

Priming

No priming is required.

Mixing

When mixing always use complete pockets, but more than one pocket may be used. Mixing of grout may be carried out in a pan mixer, drum mixer or by using a slow-speed electric drill fitted with a suitable paddle. Mix 5.6 litres water with each bag of **Anchor Grout** to a slurry. While stirring continuously, add the dry powder until the mixture is free from lumps. Continue mixing until a smooth, creamy consistency is obtained. Total mixing time should be approximately three minutes. Final volume when mixed should yield ± 12.4 litres grout. Use all mixed material within 10 minutes of mixing. **Anchor Grout** attains a treacle-like consistency when mixed and has self-levelling properties for easy placing.

Application

Mixed grout should be poured into the cavity at one point only to avoid entrapping air. For best results, mixed grout should be poured within 10 to 15 minutes of mixing. If grout is not placed immediately after mixing, keep the material agitated. Grouting mixture more than 30 minutes old must be discarded. **Anchor Grout** can be compacted by gentle rodding or punning. It may also be applied by means of standard low pressure grouting pumps. Do not re-temper the grout should the consistency drop due to time lapse.

Cleaning

Mixing equipment should be cleaned immediately after use and before material has set with clean water. Cured material can be removed mechanically, or with an inhibited acid etch.

Setting time

Ready for normal loading in 90 minutes from pouring.

Curing

Surfaces should be protected from wind or high temperature, which can cause rapid drying. Cover the surface with damp sacks. Do not allow the sacks to dry out.

Strength

90 minutes	13.5 mPa
1 day	18.7 mPa
2 days	23.1 mPa
7 days	26.3 mPa
28 days	28.3 mPa

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Packaging

Available in 20 kg paper bags.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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