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Anchorloc GG

Gun grade, high strength epoxy anchoring adhesive

USES

Anchorloc GG is a high strength epoxy anchoring compound, packaged in twin cartridges for application by gun. Anchorloc GG is ideal for use as a general purpose adhesive, high strength epoxy grout, or for anchoring fixings into concrete, such as civil structures, bridge abutments, crash barriers, etc. on Vic Roads projects.

BENEFITS

- High strength
- Excellent adhesion
- Cures under damp conditions
- Ease of application
- Supplied as pre-measured twin cartridge
- Fast Curing

DESCRIPTION

Anchorloc GG is supplied as a ready to use 650ml twin cartridge. Anchorloc GG is a blend of selected resins, hardeners and aggregates, designed to give a low slump epoxy paste which is easy to use through application by gun.

TYPICAL PROPERTIES

<i>Compressive strength</i>	126 Mpa (ASTM D695-10)
<i>Tensile Strength</i>	38 Mpa (ASTM D638-10)
<i>Flexural Strength</i>	60 Mpa (ASTM D790-10)
<i>Flexural Modulus</i>	5 Gpa (ASTM D790-10)
<i>Shear Strength</i>	3.5MPa (ASTM 1002-10)
<i>Initial Cure @ 20°C</i>	10 minutes
<i>Loading Time @ 20°C</i>	6 Hours
<i>Colour</i>	Grey, streak free paste

SAFE WORKING LOADS

Hole Diameter (mm)	Bar Diameter (mm)	Depth (mm)	Tensile Load
12	8	100	10.6kN
16	12	125	19.8kN
20	16	150	31.6kN
24	20	200	52.8kN
32	28	250	92.4 kN

ANCHOR EMBEDMENT

Anchor Size	Drilled hole (mm)	Effective Depth & Edge Distance (mm)	Concrete Thickness (mm)	Anchor Spacing (mm)
M8	10	80	110	160
M10	12	90	120	180
M12	14	110	140	220
M16	18	125	160	250
M20	24	170	220	340
M24	28	210	270	420
M30	35	280	340	560

REBAR EMBEDMENT

Rebar Size (mm)	Drilled Hole (mm)	Effective Depth & Edge Distance (mm)	Concrete Thickness (mm)	Anchor Spacing (mm)
T10	13	90	120	180
T13	16	110	150	220
T16	20	125	170	250
T20	25	170	220	340
T25	30	210	270	420
T28	35	270	340	540
T32	40	300	380	600
T40	50	400	500	800

PREPARATION

All contacted surfaces must be free of oil, grease or any other contamination which may inhibit bond. Holes which have been drilled or cored must be brushed or blown free of any laitance or dust. Where holes are full of water, this must be removed prior to placement of the fixing. Anchorloc GG will still cure under damp conditions but free water will reduce the ultimate strength and bond.

MIXING

Anchorloc GG is a 2 part epoxy system, which is mixed as it is gunned from the twin cartridge through a static mixer. When starting each cartridge, gun a small quantity onto a scrap board to check that an even, streak free grey paste is being produced.

APPLICATION

Anchorloc GG can be installed directly from the cartridge using a specialty twin cartridge application gun. When filling into a hole, fill from the bottom up. When using as an adhesive ensure that the two components being adhered are held firmly together until product is cured.

Do not attempt to rework or retemper any partially set material. Avoid waste by having bars or fixings ready for placement in a single operation. If the static mixer provided with the cartridge becomes blocked with partially set material, it will need to be replaced.

CURING

Anchorloc GG will be suitable for light loads after 6 hours, assuming ambient temperature of 20°C. Allow 7 days for full cure of product.

CLEAN UP

Freshly mixed Anchorloc GG can be removed using Resiloc Thinners. Partially cured or hardened material can only be removed mechanically.

SUPPLY

Anchorloc GG is supplied in a 650ml twin cartridge, comprising base, hardener and a static mixer.

Additional static mixers and specialised application guns are supplied separately.

STORAGE

Anchorloc GG should be stored in a cool, dry place in original unopened containers. Shelf life under these conditions is 12 months.

PRECAUTIONS

Anchorloc GG is designed for application in ambient temperatures between 10° - 35° C and all properties listed above assume a temperature of 20°C. Where conditions outside this range are encountered, please consult our technical staff prior to application.

Material Safety Data Sheets (MSDS) are available to users of Aitken Freeman products on request. Please ensure you have read this data sheet, the MSDS, and the product label carefully before first use of any product.

TECHNICAL SUPPORT

Aitken Freeman offers a comprehensive range of high quality, high performance construction products. In addition, Aitken Freeman offers technical support to users and specifiers, and can arrange on-site visits to end users and contractors.

ALLIED PRODUCTS

Aitken Freeman manufactures a broad range of construction products and can supply the following:

- Grouts and anchoring systems
- Epoxy Surface Coatings
- Admixtures for concrete
- Adhesives & Sealants
- Floor toppings
- Floor levelling compounds
- Concrete Repair materials
- Waterproofing solutions

Refer to Material Safety Data Sheet for precautions and personal protection

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