

Monocrete

Flowable type C non shrink cementitious grout

DESCRIPTION

Monocrete is a flowable, nonshrink type C grout based on ordinary Portland cement, specially graded aggregates and admixtures to produce a fluid grout at a low water cement ratio.

ADVANTAGES

- Fluid
- High strength
- Easy application
- Dual shrinkage compensation
- Durable

TYPICAL PROPERTIES

Set Times @ 20°C

Initial	165 minutes
Final	270 minutes

Compressive Strength

Compressive Strength MPa				
Water(lt)	3.5	4.2	4.8	5.0
Age (days)	Trowel	Plastic	Flowable	Fluid
1	25	22	20	15
7	45	40	39	34
28	62	60	58	55

APPLICATION INSTRUCTIONS

Preparation

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any cracked or weakened concrete should be removed prior to being repaired to provide a solid foundation.

Scabbling or water blasting should be used to remove laitance and provide a mechanical key.

Priming

The substrate should be presoaked with clean water prior to carrying out the repair. This operation can be used to check that the formwork is liquid tight. After soaking, all water should be drained from the form work just prior to commencing the placement of the Monocrete. Free water on the surface will reduce the bond and ultimate strength.

Mixing

Monocrete is suitable for mixing using a drill and suitable paddle, or pump where a large quantity is required. Use 5.0 litres of water per bag of Monocrete to achieve a smooth fluid consistency. Mix for 3 to 5 minutes to ensure thorough mixing. Excess water will reduce the final strength and make application of the grout more difficult. Always add the powder to the water while mixing slowly to avoid lumps. Only mix that quantity of material that can be used within the setting time. Do not attempt to rework or retemper any partially set product.

Application

Place the mixed Monocrete in the formwork by pouring or pumping in a single continuous operation to fill the void. If a break is inevitable, it should not exceed 10 minutes before pumping is recommenced. The provision of air bleed holes will help facilitate placement under complex base plates.

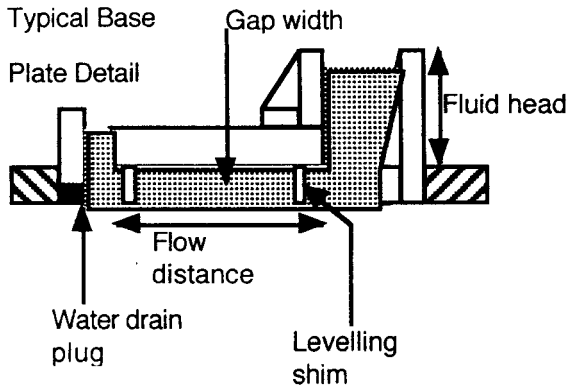
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MONOCRETE

Application (cont)

The minimum thickness applied in any application should be limited to 10mm.



Curing

Immediately after the formwork has been removed apply a coat of Curecon PW to the exposed faces of the grout. Wet cure where possible to maximise the dual expansion process.

CLEAN UP

Clean all equipment with water immediately after use.

ESTIMATING

Packaging

Monocrete is supplied in poly lined multiply paper bags with a net weight of 25kg.

Estimating Data

Fresh wet density 2130 kg/m³ @w/p = 20%

Consistency	Trowel	Flowable	Fluid
Yield per bag	12.7	13.5	14.1
No. Bags per m ³	79	74	71

STORAGE

Monocrete is a cement based product which should be stored in a dry area off the ground.

PRECAUTIONS

Where temperatures less than 5°C or greater than 35°C are encountered, contact our Technical Staff for specific advice.

Monocrete is non toxic, but it is alkaline in nature.

Any contact with eyes or skin should be washed off with clean water. Protective gloves and clothing should be worn.

The use of open bags will reduce the fluidity of the grout. Always use fresh grout in critical application.

NOTE

Material safety data sheets for these and all Aftak products are available on request. Read the MSDS and product label carefully before using.

All reasonable care is taken in the compilation of this data sheet. All recommendations regarding use are made without guarantee as the conditions of use are beyond the control of the manufacturer.

ALLIED PRODUCTS

Aftak manufactures a broad range of construction products including.

Grouts

Coatings

Admixtures

Adhesives

Sealants

Floor Toppings

Floor Levelling Compounds