

## Multigrout

**Non-reactive, high flow high performance non-shrink, high strength, grout/mortar**

### Description

MULTIGROUT is a pre-blended cementitious mixture with high grade, non-reactive limestone aggregates for control of alkali-silica reaction. It is supplied ready to use requiring only the addition of pre-measured clean potable water to produce a shrinkage compensating, multi-purpose grout in either the trowellable, plastic or flowable state.

### Fields of Application

MULTIGROUT should be used anywhere it is necessary to minimise the effect of shrinkage.

- Bridge bearing plates.
- Filling spaces between new and old concrete.
- Anchor bolt fixing.
- Concrete repair.
- Caulking of spaces around pipes and services.
- Flowable consistency - precision grouting and fixing of heavy machinery; dowel bars, crane rails, etc.

Note: MULTIGROUT is not designed to be used as a trowel-on-render or for use in unrestrained situations, e.g. floor repairs.

### Features and Benefits

- Non-reactive - risk of alkali-silica reaction eliminated.
- Shrinkage compensating in both plastic and hardened state.
- Dimensionally stable in its hardened state ensures full void filling and load transfer.
- Suitable for pumping, pouring, trowelling, tamping.
- Good durability due to low water/cement ratio, high ultimate strength and

### Preparation

All Surfaces should be free from oil and grease and the surfaces saturated with water 2 hrs before grouting, free water should be removed before grouting commences. Formwork should be leakproof and can be achieved by the use of Silicone sealant.

### Mixing

For best results, when mixing up to 50Kg, a mixing paddle on a drill is suitable, a free fall mixer should not be used.

To achieve a **Trowellable** mix, add 3.4 -3.6 litres of water to 25kg, for a **Flowable** mix, use 4.0 – 4.5 litres.

### Placing

At 20 deg C place the grout within 20 mins of mixing, up to 75mm can be placed in a single continuous pour, the grout should be poured from the shortest side of the void to prevent any air being trapped. Upon reaching trowellable consistency, the unrestrained portion should be cut back to the base plate/bearing plate and all exposed areas cured in accordance with good practice.

## Estimating

Adawall Multigrout is supplied in 25Kg bags, the approximate yield being 12 litres for trowellable consistency and 15.2 (approx.) litres for Flowable

## Limitations

When the air temperature is 5 deg C or below, warm water, 30 – 40 deg C is recommended to accelerate strength. For ambient temperatures below 10 deg C the formwork should be kept in place for 36 hrs.

## Storage

Store unopened bags in cool dry conditions. Multigrout has a shelf life of 12 months if kept in a dry store in a sealed bag.

## Technical Data/Typical Properties

low permeability.

Appearance: Grey granular powder Plastic Density: 2170 Kg/m<sup>3</sup> at 20°C

- Excellent workability/ high flow ideal for grouting narrow gaps.
- High early strength reduces downtime and costs.
- Does not contain chlorides, nitrates or other added accelerating chemicals.

Initial Set (at 20°C): Approx. 3.5 hrs Final Set (at 20°C): Approx. 5 hrs Max. Aggregate Size: 2.0 mm Min.

Cement Content: 500 Kg m<sup>3</sup>

## Compressive Strength (BS 1881: Part 108) 100 mm cubes:

16 N/mm<sup>2</sup> @ 1 day

42 N/mm<sup>2</sup> @ 7 days

60 N/mm<sup>2</sup> @ 28 days

## Flexural Strength (BS 6319. Part 6: 1984)

7 N/mm<sup>2</sup> @7 days

13 N/mm<sup>2</sup> @ 28 days