



FORMIX

Concrete Mixtures

FORMGROUT

Plasticising Expanding Grout Admixture

Description

FORMGROUT is an admixture in powder form that includes an expanding medium and a plasticising agent. The expanding medium generates gas during the hydration process counteracting normal settlement and shrinkage and leaving a slight residual overall expansion. Expansion takes place before initial set and a built in delaying action allows time for placing and compaction.

Advantages

FORMGROUT added to a cementitious mix provides:

- A positive expansion to ensure permanent high bond to all contact surfaces
- Improved flow properties with lower water/cement ratio
- Higher compressive strengths
- A homogeneous mix free from bleeding and segregation
- Improved resistance to frost and fire damage

Tests on cubes made with a 2:1 sand/cement mix by weight and a water/cement ratio of 0.45, inclusive of sand moisture content would obtain the following typical results:

AGE	CONTROL Compr. Str. Expansion		ADOGROUT Compr. Str. Expansion	
	N/mm ²	%	N/mm ²	%
1 day	9.3	- 0.50	8.6	+ 0.85
7 days	32.4	- 0.50	36.9	+ 0.85
28 days	46.2	- 0.50	49.6	+ 0.85

Use

To 50 kilos Portland cement use 1 packet **FORMGROUT**. The cement, or cement and aggregates, should be thoroughly mixed dry together with **FORMGROUT**, the gauging water should then be added to obtain the required consistency, keeping the mix as dry as possible consistent with placing conditions. After mixing for a minimum of 3 minutes, material should be placed as soon as possible.

FORMGROUT reacts only with the cement paste in the matrix, therefore when using with normal concrete, such as a 1:2:4 mix; the usage rate of **FORMGROUT** should be doubled.

FORMGROUT is completely non-hazardous; it is suitable for use with all Portland Cements but should not be used with High Alumina Cement.

Specification Clause

FORMGROUT Plasticising and Expanding Grout Admixture manufactured by Formwork Direct International Ltd, shall be used in accordance with the manufacturers recommendations.

Health & Safety

Refer to separate **FORMGROUT** Health and Safety leaflet.

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Suggested mixes

50 kilos Portland cement
1 packet **FORMGROUT**
23 litres water
Yield: approx. 37 litres

For pumping grouts for ducts etc.....

50 kilos Portland cement
50 kilos clean washed Sharp Sand (Zone 2)
1 packet **FORMGROUT**
23-24 litres water inclusive
of sand moisture content
Yield: approx. 57 litres

For gravity fed grouts such as for grouting machine
beds, stanchion bases, bridge bearings, anchorages, etc.

50 kilos Portland cement
100 kilos clean washed Sharp Sand (Zone 2)
1 packet **FORMGROUT**
23-25 litres water inclusive
of sand moisture content.
Yield: approx. 75 litres

For grouts where there is easy access to assist
placing such as with grouting of temporary
construction voids, non-shrink repair work etc.

Water contents shown should be treated as approximate only and mix should be kept as dry as possible consistent with placing conditions.

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