

# Data Sheet

## ADOGROUT

### Plasticising Expanding Grout Admixture



#### Description

**ADOGROUT** 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

**ADOGROUT** 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 <sup>2</sup>	%	N/mm <sup>2</sup>	%
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 **ADOGROUT**. The cement, or cement and aggregates, should be thoroughly mixed dry together with **ADOGROUT**, 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.

**ADOGROUT** 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 **ADOGROUT** should be doubled.

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

#### Specification Clause

**ADOGROUT** Plasticising and Expanding Grout Admixture manufactured by Adomast Building Chemicals Ltd, shall be used in accordance with the manufacturers recommendations.

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#### Health & Safety

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

#### Suggested mixes

50 kilos Portland cement  
1 packet **ADOGROUT**  
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)  
etc.  
1 packet **ADOGROUT**  
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,

50 kilos Portland cement  
100 kilos clean washed Sharp Sand (Zone 2)  
1 packet **ADOGROUT**  
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.