

TECHNICAL INFORMATION

FLOW MODIFIED GROUT RANGE

Product Data Sheet: Tunnelling Grouting Materials

DESCRIPTION

The **Flow Modified Grout Range** is a range of pre-blended cementitious grouts manufactured using ordinary Portland Cement, selected fillers and chloride free super plasticising additives for use where high flow or penetration is required. The **Flow Modified Grout Range** has excellent pumpable qualities when mixed with water. The heat of hydration is low with minimal plastic shrinkage.

The **Flow Modified Grout Range** has a high resistance to sulphates and have a low density and high yield.

USES

The **Flow Modified Grout Range** is a versatile grout range designed for void filling and ground remediation, amongst other general grouting operations.

Typical uses include filling redundant mine and tunnel workings, trenchless tunnel systems and the grouting of tunnel linings.

APPLICATION

The **Flow Modified Grout Range** should be mixed using clean, potable water which complies with BS EN 1008 (as for concrete).

These grouts are designed to be versatile and can be mixed and placed using a range of equipment including paddle, high-shear and colloidal mixers and helical screw, diaphragm and piston type pumps.

Material should be mixed until a homogeneous consistency is achieved. No bleed water should be visible after mixing. Materials should be used immediately after mixing. Mix in clean mixing containers and using clean equipment. Due to the nature of cementitious materials grouting can only commence at 5°C and rising.

PACKAGING AND STORAGE

The **Flow Modified Grout Range** is available in nominal 20kg sacks, palletised and shrink wrapped. They are also available in Intermediate bulk containers or in Bulk Powder Tankers.

If palletised they should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high.

These products should be used on a first in – first out basis.

Shelf life is minimum 3 months but could be in excess of 6 months subject to temperature and humidity.

If supplied in Bulk Powder tanker form the product should be stored in cement type silos with suitable dust control equipment.

QUALITY CONTROL

All Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

For more details contact:
03444 630 046 pozament@tarmacbp.co.uk

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.



TYPICAL PERFORMANCE

The below figures are obtained by laboratory testing at 22°C and at a WSR of 0.4 (8 litres of water per 20kg bag, 8 litres of water per 20kg bag).

Typical Usage Legend:

T=Tunnelling
 S=Structural
 STAB=Stabilisation
 P=Piling
 V=Void Filling

Product	W:SR	Compressive Strength Gain (N/mm ²)				Set Time (Hours)	Powder (T) per m ³ grout ¹	Yield (litres per 20kg) ¹	Typical Uses (see legend)
		1 day	3 days	7 days	28 days				
SP/F7	0.4	10-12	15-18	30-32	44-46	8	1.36	14.69	T,S,STAB,P,V
SP/F6	0.4	5-7	8-10	19-21	34-36	8	1.23	16.25	T,S,STAB,P,V
SP/F1	0.4	-	4-6	8-10	16-18	8	1.23	16.25	T,S,STAB,P,V
SP/F3	0.4	-	2-4	4-6	11-13	8-10	1.21	16.52	T,STAB,P,V
SP/F4	0.4	-	0.5-1.5	1.5-3	5-7	8-10	1.20	16.66	T,STAB,V
SP/F5	0.4	-	-	-	2-3	10-12	1.10	18.17	T,STAB,V

¹These figures are approximate and take no account for site wastage.

INFORMATION, PRICES & ORDERING

For technical information, pricing and to place orders contact our Sales Office on the following:

Telephone: **03444 630 046**

Email: pozament@tarmacbp.co.uk

Visit our website: pozament.co.uk

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 Swains Park Industrial Estate, Park Road, Overseal,
 Swadlincote, Derbyshire, DE12 6JT

HEALTH & SAFETY

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

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