

Technical information



Precision grout



DESCRIPTION

Pozament PLATINUM precision grout is a pre-blended, specially formulated, shrink compensated cementitious grout with excellent flow and flow retention properties. It is part of the Pozament PLATINUM range to meet the many performance requirements of construction grouting. All Pozament PLATINUM grouts are based on specially selected Portland cement, graded aggregates and high quality performance enhancing admixes.

USES

Pozament PLATINUM precision grout has been specifically designed to provide a high strength fluid grout solution for pouring into and under stanchion plates, machine base plates, underpinning, parapet rails, crash barriers, for supporting bridge bearings and for filling ducts in post tensioned and pre-stressed structures. It can also be used in its plastic trowelable state as a bedding mortar.

ADVANTAGES

Pozament PLATINUM precision grout has excellent workability retention and can be pumped, poured, trowelled or used as a dry pack material when reducing the water content added.

MIXING INSTRUCTIONS

The grout should be mixed using water that complies with BS EN 1008 (as for concrete). It should be mixed in a suitable container using either an electric (1kW) or pneumatic power tool. Larger amounts can be mixed in a forced action paddle mixer.

For a flowing consistency, 25kg of the grout powder should be added carefully to 4.75-5 litres of water, progressively mixing until a fluid grout consistency is achieved.



For a trowelable consistency, 25kg of the grout powder should be added carefully to 3-3.25 litres of water, progressively mixing until the required consistency is achieved. Small quantities can be mixed by hand, care being taken to accurately measure the water.

PERFORMANCE DATA

Water Addition (per 25kg) Flowable consistency	4.75 - 5 Litres
Water Addition (per 25kg) Trowelable consistency	3 - 3.25 Litres
Workability (Flowable)	30 minutes
Positive Expansion	1-3%
ASTM C939 E Flux time @ 0 min	120 seconds
ASTM C939 E Flux time @ 20 min	120 seconds
Flow ring @ 0 min (40mm h, 65mm d)	180 - 230mm
Set Density (Flowable)	2180
Application Thickness	10-100mm

Yield per 25kg – Flowable consistency	
Kg powder per m³	1815 kg
25kg bags per m³	73 Bags
Litres per 25kg bag	13.7 Litres

	Compressive	Flexural
1 day	15.0 N/mm ²	3.5 N/mm ²
7 days	40.0 N/mm ²	7.0 N/mm ²
28 days	55.0 N/mm ²	8.0 N/mm ²

Data is sourced from tests performed in controlled laboratory conditions at 18-20°C.

TECHNICAL PERFORMANCE DATA (EN 1504)

Performance criteria	Requirement	Result
Compressive Strength (EN 12190)	>45 N/mm ²	60.8 N/mm ²
Chloride content (EN 1015-17)	<0.05%	<0.01 %
Adhesive bond (EN 1542)	2.3 N/mm ²	3.2 N/mm ²
Carbonation resistance (EN 13295)	Pass	Pass
Elastic Modulus (EN 13412)	>20GPa	22.7 GPa
Thermal compatibility	>2 N/mm ²	2.0 N/mm ²
Capillary water absorption (EN 13057)	<0.5 kgm ² h0.5	0.196
Anchoring pull out (BS EN 1881:2006)	<0.6mm @ 75kN	Pass

APPLICATION INSTRUCTIONS

Pozament PLATINUM precision grout has excellent flow properties meaning it can be easily pumped or poured into position.

Pozament PLATINUM precision grout has excellent flow retention, but for best results the grout should be placed immediately on completion of mixing. Ensure all surfaces with which the grout will come into contact are clean and dust free. Ideally, concrete substrates should be thoroughly soaked for several hours prior to the grout being applied to reduce suction.

Permeable concrete should be treated with a suitable concrete primer such as Acrylic Primer. Shutters must be impermeable to the passage of water and both strong enough and sufficiently supported to contain the placed grout. When gravity placed, sufficient hydrostatic head must be given, and grout volume maintained to enable the material to flow completely through the void to be filled from one side of shutter only. A minimum 50mm head is recommended. Immediately prior to placement all excess water should be removed. Any grout exposed to wind or drying conditions should be suitably protected, preferably by coating with a wax-free Curing Agent.

Any grout that is likely to be subject to low temperature immediately after placing or during its early strength development should be protected by covering with hessian or other insulative material. For concreting in cold weather reference should be made to BS8110 Pt. 1 Section 6.

As with all cementitious products, working times can be reduced with higher temperatures.

CLEAN UP

Dry powders should be swept up and disposed of in accordance with the Local Authority.

PACKAGING AND STORAGE

Pozament PLATINUM precision grout is available in nominal 25kg sacks, palletised and shrink wrapped.

Palletised Pozament PLATINUM precision grout should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis. Shelf life is 6 months in paper bags and 12 months in plastic bags (from the date shown on the bag). Subject to correct storage conditions

QUALITY CONTROL

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

HEALTH AND 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.

INFORMATION, PRICES & ORDERING

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

Telephone: 03444 630 046

Email: specialistproducts@tarmacbp.co.uk

Visit our website: www.tarmac.com

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Product Data Sheet