

TECHNICAL INFORMATION

RAPID SET CEMENT

Product Data Sheet

DESCRIPTION

Rapid Set Cement is a blend of cementitious products and various additives. It provides fast setting and hardening properties for a variety of applications including concrete, rendering and mortars.

USES

The typical uses of **Rapid Set Cement** are:

- Setting of manholes
- Fence post fixing
- Concreting of paths, drives and steps
- Repairs to rendering and floor screeds.
- Railings and copings

QUALITY AND DURABILITY

To achieve the best results, we draw your attention to the general guidelines on the use of cement shown on the reverse of this information sheet. If in doubt please contact our Sales Office. Careful selection of the other concrete or mortar constituents will maximise the benefits, shown above, when using **Rapid Set Cement**.

TYPICAL PERFORMANCE

Fresh Properties	
Setting Time (BS EN 196-3)	10 – 30 minutes
Hardened Properties	
Compressive Strength N/mm ² (BS EN 196-3 Mortar)	
1 hour 4.0	1 hour 4.0
1 day 11.5	1 day 11.5
2 days 16.0	2 days 16.0
28 days 35.0	28 days 35.0

MIXING INSTRUCTIONS

General Concreting (including paths, drives and steps)

The sand should be clean, sharp concrete sand. The stone should be clean, graded 20mm natural or crushed gravel. Alternatively, all in aggregate (ballast) with clean, sharp sand blended with graded 20mm aggregate may be used. As the product is rapid setting it should be mixed and placed within 15 minutes.

General Purpose Concreting Applications (Not foundation work or exterior paving)

	Proportions by Volume	Amount per m ³ (approx)
Rapid Set Cement	1	305 kg
Sand	2	650 kg
20mm aggregate	20mm	1125 kg
All in aggregate	(4)	(1780 kg)

Paving Applications

(Suitable for paving including driveways)

	Proportions by Volume	Amount per m ³ (approx)
Rapid Set Cement	1	380 kg
Sand	1 ½	570 kg
20mm aggregate	2 ½	1140 kg
All in aggregate	(3 ½)	(1720 kg)

Mortars:

The sand used should be clean and well graded.

	Rapid Set Cement: Sand (with plasticiser)
General Usage (low-rise housing)	1 : 5 – 6
Strong free-standing walls	1 : 3 – 4

For more details contact:
 03444 63 64 65 packedproducts@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.

After being placed concrete and mortar product require moisture to develop to their full strength. Early drying out must be avoided. In normal conditions and at temperatures in excess of 10°C, concrete or mortar should be cured under damp conditions for 1 to 3 days (cover with curing membrane, plastic sheeting or wet hessian). At temperatures below 10°C, the curing time should be doubled. Protection of fresh concrete and mortar against freezing is essential and placement under such conditions should be avoided.

Like all materials, to get the best from concrete and mortar a few simple rules apply:

DO:

- Use the correct sand and/or stone
- Use the correct quantities of materials
- Mix the materials thoroughly
- Use only enough water for the purpose
- Compact concrete fully
- Protect concrete and mortar from premature drying out
- Protect concrete and mortar from frost

DON'T:

- Use very fine, silty or dirty sands
- Use any frozen materials
- Use concrete or mortar below 3°C
- Use concrete or mortar on frozen ground
- Use excessive water
- Allow concrete or mortar to dry out too quickly

CLEAN UP AND SPILLAGES

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

QUALITY CONTROL

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

PACKAGING & STORAGE

Rapid Set Cement is supplied pre-packed in nominal 25kg bags which should be stored under cover and clear of the ground. Storage conditions should be dry. Do not stack more than two pallets high; protect from moisture and temperatures below 5°C. In unopened packaging, the shelf life is 6 months (from the date shown on the bag), subject to correct storage conditions.

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 please contact us as follows:

Technical Information t: **03444 63 00 46**

Orders t: **03444 63 64 65** f: **08443 09 97 01**

Email: **packedproducts@tarmacbp.co.uk**

Visit our website: **tarmac.com**

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