

Uniclass L621  
/ Cl / Sfb / / Yq2 /  
August 2018

# TECHNICAL INFORMATION



## HIGH STRENGTH CONCRETE

### Ready-to-use High Strength Concrete (40N) Product Data Sheet

Blue Circle High Strength Concrete (40N) is a premixed strong and hardwearing concrete manufactured from cement, specially selected and graded sand, and 10 mm

coarse aggregate. When used correctly it will typically achieve a 28-day compressive strength of 40 N/mm<sup>2</sup>.

#### GENERAL INFORMATION

Blue Circle High Strength Concrete (40N) is suitable for concrete bases, drives, paths, garage floors, structural concrete, footings and foundations\*, and for fixing security fences, traffic signs and bollards.

This product is manufactured to a third-party accredited BS EN 9001 Quality Management System.

\* In soils containing high sulfate levels, concrete made with Blue Circle Sulfacrete should be used.

#### PACKAGING & COVERAGE

Blue Circle High Strength Concrete (40N) is available in weatherproof and tear-resistant plastic packaging. One 20kg bag will typically produce around 0.01 m<sup>3</sup> of fresh concrete (0.33m x 0.33m x 0.1m).

#### MIXING

Mix with water until the required workability and consistency is obtained. This can normally be achieved by the addition of 2 litres of clean water per bag of concrete. Mixing by machine is preferable with a mixing time of 3-5 minutes. If mixing by hand, mix on a clean board and take care to avoid loss of water and cement during mixing.



### WORKING TEMPERATURE

Do not use at temperatures below 5°C or above 30°C without taking precautions to ensure that new work is protected from freezing or drying out.

### USE

Blue Circle High Strength Concrete (40N) should be used within 30 minutes of adding water. Concrete should be fully compacted before finishing.

Newly finished concrete should be protected from drying out by covering with polythene sheeting or wet hessian (sacking) for a minimum of 7 days.

Clean all tools and equipment immediately after use and before the material has set.

The final strength and finish of this product will depend on the user having the required skills and familiarity with the product and its application methods.

### STORAGE AND SHELF LIFE

Blue Circle High Strength Concrete (40N) is a cement-based material and should be handled and stored with care. Unopened bags can be stored in either outdoor or indoor conditions. Open bags should be stored in dry cool conditions protected from wind. Information on the maximum storage period (shelf life) of the product is shown on the bag.

Normal manual handling procedures (Manual Handling Operations Regulations 1992) should be followed when unloading or moving bags.

### AVAILABILITY

Blue Circle High Strength Concrete (40N) is available in 20 kg plastic bags throughout the United Kingdom.

### TECHNICAL SUPPORT

Further information and advice on this product and the full range of Tarmac Cement products can be obtained through the contacts listed below.

### RESPONSIBLE SOURCING

This product has been externally assessed and awarded a 'Very Good' classification to the prestigious BES 6001, Responsible Sourcing Standard.



### HEALTH AND SAFETY

Blue Circle High Strength Concrete (40N) contains cement; contact between cement and body fluids may cause irritation, dermatitis or burns. For further information, including control of soluble hexavalent chromium, refer to the appropriate Tarmac Cement Health and Safety Information Sheet.

#### For further information

##### Technical helpdesk

Tel: 0845 812 6232

E-mail [info-cement@tarmac.com](mailto:info-cement@tarmac.com)

##### Customer services & sales

Tel: 0845 812 6300

E-mail [customerservice@tarmac.com](mailto:customerservice@tarmac.com)

Tarmac' and the 'circle logo' are registered trademarks. ©2015 Tarmac Trading Limited

The information in this data sheet is accurate at the time of printing, but Tarmac reserves the right to amend details as part of its product development programme. 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.