



C40 HIGH STRENGTH CONCRETE

DATA SHEET

Updated January 2019



C40 High Strength Concrete (40N) is a pre-mixed, strong and hardwearing concrete.

This is manufactured from cement, 10mm coarse aggregate and specially selected sand and is formulated for exceptional performance where higher guaranteed strength is required.

It is available in showerproof, tear-resistant plastic packaging within the UK.

APPLICATIONS

C40 High Strength Concrete is ideal for a wide variety of building projects ranging from manholes, ironworks and foundations to footing lamp posts and road signs or any other work requiring a concrete with high compressive strength.

PROPERTIES

C40 High Strength Concrete conforms to BS 8500, for a CEM III/A+SR with additional attributes that enhance sulphate resistance. C40 High Strength Concrete also:

- Prevents damaging reactions to alkali silica.
- Prevents delayed ettringite formulation.
- Reduces the rate at which deleterious chemicals, such as chlorides can penetrate the concrete which prevents other damaging reactions including corrosion of embedded steel reinforcement.

HOW TO MIX C40 HIGH STRENGTH CONCRETE

These mixing instructions are designed to help you get the best out of C40 High Strength Concrete:

- Segregation can take place during transit, which is why we recommend you thoroughly mix the bag contents before use.
- For optimum results, mix the contents using a mechanical mixer or hand mix by pouring the contents onto a clean, flat surface. Slowly add between 2.0 and 2.5 litres of clean water while mixing until you get the consistency you want.
- The concrete should be used within 30 minutes of the water being added.
- If you add too much water, the mix will be weaker, it will take longer to set and the overall performance of the concrete will be impaired.
- One of the main benefits of C40 High Strength Concrete is that all plasticisers and workability aids are incorporated into the mix, which means you don't have to add anything to maximise the performance of the product.

COVERAGE PER BAG

One bag of C40 High Strength Concrete mixed with 2.5 litres of water will produce about 0.01m³ of concrete and cover:

- 0.13m² at 75mm thick
- 0.10m² at 100mm thick

One bag of C40 High Strength Concrete mixed with 2.0 litres of water will produce about 0.01m³ of concrete and cover:

- 0.10m² at 75mm thick
- 0.08m² at 100mm thick

HEALTH AND SAFETY

Contact between cement powder and body fluids (e.g., sweat and eye fluids) may cause irritation, dermatitis or burns. For further information, including control of soluble hexavalent chromium, refer to the appropriate **Breedon Cement Material Safety Data Sheets**.

TECHNICAL SUPPORT

For additional information on C40 High Strength Concrete and the full range of Breedon Cement bagged products, please contact us on the details below.