

TECHNICAL INFORMATION

HIGH STRENGTH (40N) CONCRETE

Product Data Sheet

DESCRIPTION

High Strength (40N) Concrete is a heavy-duty bagged concrete designed for industrial and commercial applications. The one component blend of ordinary Portland cement, graded aggregates and additives is available in 20kg water resistant bags and requires only the addition of water on site.

USES

High Strength (40N) Concrete can be used in the following applications:

- Industrial and commercial applications
- Where high strength is a requirement
- Paths and drives
- Shed bases
- Steps
- Fixing posts
- Wall foundations

SPECIAL PROPERTIES

- Pre-blended & ready to use – just add water
- Easy to mix
- Saves time – quick and convenient
- Consistent & durable results

TYPICAL PERFORMANCE

	Compressive Strength
1 day	15.0 N/mm ²
7 day	30.0 N/mm ²
28 day	40.0 N/mm ²

The above figures are derived from laboratory testing at 20°C at a WSR of 0.11.

For more details contact:
03444 636465 packedproducts@tarmacbp.co.uk

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YIELD

Approximately 10.0 litres per 20kg bag.

PREPARATION

Application surfaces should be clean, dry and free from any loose material, oil, grease or any other contaminants that could adversely affect the bond. All substrates should be pre-wetted with water prior to application of the concrete. Good preparation is key to product performance.

MIXING INSTRUCTIONS

For best results **High Strength (40N) Concrete** should be mixed using a mechanical mixer such as a pan or a drum mixer.

Empty the contents of the **High Strength (40N) Concrete** bag into the mixer and blend until a uniform consistency is achieved. Slowly add clean water until the required consistency and slump is achieved. Approximately 2.25 litres of water per 20kg bag will be required.

Alternatively, the concrete can be mixed by hand on a clean flat surface. Empty the bag of **High Strength (40N) Concrete** onto the surface and mix thoroughly before adding water. Create a pile of concrete with a hollow in the top and add clean water into the hollow. Shovel the concrete into the water taking care to prevent the water escaping. When the water disappears, create a new hollow, add more and repeat the mixing as above. Continue the above process adding smaller additions of water until the required consistency and slump is achieved.

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Avoid adding excess water as this will weaken the concrete mix and adversely affect the strength and setting time of the product.

It is recommended that the entire content of the bag is mixed and that part bags are not used.

On completion, cover newly laid concrete with a plastic sheet, curing membrane or wet hessian to retain moisture. The concrete should be cured for 1 to 3 days at temperature above 10°C or twice this period for temperature below 10°C.

Recommended application temperature is 5° to 25°C.

CLEAN UP

Tools and mixing equipment can easily be cleaned using water. Cleaning of tools and equipment should be carried out as soon as possible after application.

PACKAGING AND STORAGE

High Strength (40N) Concrete is available in nominal 20kg plastic sacks, palletised and shrink wrapped.

Palletised **High Strength (40N) Concrete** 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 12 months from the date of manufacture printed on the bag, subject to temperature and humidity.

QUALITY CONTROL

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

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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.

INFORMATION, PRICES & ORDERING

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

Telephone: 03444 636465

Email: packedproducts@tarmacbp.co.uk

Visit our website: tarmac.com

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