

# Technical information

## QUICKSET (40N) CONCRETE



### DESCRIPTION

Quickset 40N Concrete is a high performance quick-setting concrete ideal for the fast and efficient installation of posts, signs and other highways furniture. The one component blend of cements, additives and graded aggregates is available in 25kg water resistant plastic bags and only requires the addition of water on site.

### USES

Quickset 40N Concrete is perfect for any concreting application that requires a fast return to service time, as well as a high final strength in line with that of a C40 concrete. Quickset 40N Concrete when set dries to a light grey colour and is suitable for both surface and sub-surface use. Quickset 40N Concrete product is perfect for the fast installation of posts, signs, telephone poles, street lighting columns, roadside barriers, speed cameras, etc.

### SPECIAL PROPERTIES

- Fast set
- 40N final strength
- Easy to use, pre-blended, one component product – just add water and mix
- Available in 25kg water resistant plastic bag

### PREPARATION

All application substrates must be sound, clean and free from dust, dirt, debris, oil, grease and other contaminants.

Proper surface preparation is vital to ensure the successful application and durable performance of the concrete.

All substrates should be pre-wetted with water prior to the application of the concrete, however any standing water should be removed.

### MIXING INSTRUCTIONS

For best results Quickset 40N Concrete should be mixed using a mechanical mixer such as a forced-action high shear mixer or a slow-speed drill and paddle mixer. Alternatively, the product can be mixed by hand using a shovel.

Mix each 25kg unit with 3.0 – 3.5 litres of clean cold water. Pre-measure the required volume of water into a clean mixing vessel and steadily add the powder to the water. The product should be mixed for 2-3 minutes until a smooth, homogeneous concrete consistency is achieved.

Due to the Quicksetting nature of Quickset 40N Concrete, only ever mix a quantity of material that can be used and placed within 5 minutes of the end of mixing.

Never remix or add extra water to extend the working time of the material. Over watering the product will detrimentally affect the strength gain of the material.

## APPLICATION INSTRUCTIONS

Quickset 40N Concrete can be placed at a thickness of 10mm - 300mm in a single pass. If thicker sections are required this can be achieved using the layer-on-layer method.

Quickset 40N Concrete should be placed in the pre-wetted application area without delay after mixing. Ensure the material is tamped down and well compacted as soon as possible after placing.

Quickset 40N Concrete can be finished by floating using a trowel or similar.

Recommended ambient application temperature is 5°C - 25°C.

## CLEAN UP

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

## PERFORMANCE DATA

Water Addition (per 25kg)	3.0 to 3.5 litres
Workability	5-10 minutes
Set Time	15 minutes
Density	2200-2300kg/m <sup>3</sup>
Yield (per 25kg)	12.5 litres

	Compressive	Flexural
1 hour	4.0 N/mm <sup>2</sup>	-
1 day	18.0 N/mm <sup>2</sup>	2.0 N/mm <sup>2</sup>
7 day	32.0 N/mm <sup>2</sup>	4.0 N/mm <sup>2</sup>
28 day	42.0 N/mm <sup>2</sup>	5.0 N/mm <sup>2</sup>

The above figures are derived from laboratory testing at 20°C and at a WSR of 0.13.

## PACKAGING AND STORAGE

Quickset 40N Concrete is available in nominal 25kg bags palletised and shrink wrapped.

Palletised Quickset 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' subject to temperature and humidity.

Individual bags of Quickset 40N Concrete should be stored in sealed original packaging in a dry location at temperatures between 5°C and 30°C. Avoid exposure to water, frost or heat - extremes in temperature and high humidity will lead to a reduced shelf life.

## QUALITY CONTROL

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

## 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:

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## Product Data Sheet