

40 Newton Concrete

READER

CEMENT PRODUCTS

THE PRODUCT

Reader 40N/mm² Concrete has been specifically designed to give increased strength levels compared to that of General Purpose Concrete mix's. This product is intended for use in structural concrete or exacting applications where a high compressive strength is required. Complies with BS5838: Part 1:1980

COMPRESSIVE STRENGTH

When mixed to a medium workability (50mm to 70mm slump) Reader 40 N/mm² Concrete is designed to achieve a minimum strength of 40 N/mm² (MPa) when tested in accordance with BS EN 12390 -2/3.

QUALITY

All Reader products are tested in accordance with specific procedures to ensure compliance to specification prior to despatch and are subject to the controls of a BS EN ISO 9001 : 2008 approved quality system.

PACKAGING & STORAGE

Reader 40n/mm² Concrete can be supplied in Bulk Tanker, 20Kg plastic bags or 1tonne bags, palletised and shrink wrapped.

The material should be stored clear of the ground, sheeted and preferably under cover. The pallets

should not be stacked more than two high with the material being used on a first in, first out basis.

For best results, store correctly and use within a 12 month period of manufacture.

MIXING & USAGE GUIDE

Do not use when air temperature is below +5°C or when ground is frozen. Approx. 1.6 litres of clean water will be required for the contents of a 20kg bag. Additional water may be added if necessary to obtain the workability required for easy placing and full compaction, but avoid using excessive amounts of water as it will reduce the strength of the hardened concrete. The mix should be cohesive and not sloppy. Use only tap water, or water that is known to be clean and free of any contamination.

**CAUTION - TOO MUCH WATER WILL WEAKEN THE MIX*

For best results use a drum or pan mixer:

1. Empty contents direct from the bag into the mixer and blend until uniform.
2. Slowly add the water until required consistency or slump is achieved.

Alternatively you will need a clean flat surface, a shovel and a watering can preferably one fitted with a rose.

1. Empty contents direct from the bag onto a clean flat surface and mix the dry contents thoroughly before adding water.
2. Make a volcano shaped heap with a crater at the top. Commence adding the water, taking care not to let it run over the edges.
3. Shovel the contents into the water, mixing thoroughly. When the water disappears form a new crater and repeat.
4. As the mix starts to combine, add the water more carefully. Just enough to hold the ingredients together until required consistency is achieved. Finally to test for workability, chop through the mix with the back of the shovel. Check for air pockets, ideally the mix should be moist and able to hold its shape.

Once in place, concrete requires moisture to develop its full strength and premature drying out must be avoided. In normal conditions and at temperatures in excess of 10°C, concrete 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, this curing time should be doubled.

NOTE: Ensure all tools and equipment are cleaned thoroughly with water prior to the material setting.

Reader Cement Products Ltd cannot accept responsibility for unsatisfactory concrete where workmanship has not been carried out in accordance with good practice.

HEALTH & SAFETY

Cement powder when mixed with water releases Alkali which may cause skin and eye irritation. We therefore advise the use of barrier creams, gloves and protective eyewear as a precaution when using these products.

A further detailed Health and Safety Data Sheet for these products is available on request.

FEATURES / BENEFITS / APPLICATIONS

- Heavy duty concrete designed for industrial and commercial applications
- Typical coverage – 0.115m² at 100mm thickness
- Minimum 28 day strength 40N/mm² (MPa) at recommended workability
- Minimum thickness recommended for concrete pathways is 75mm
- For driveways with a firm subsoil a minimum thickness of 100mm is recommended



Reader Cement Products Ltd.

Kirkby Lane, Pinxton, Nottinghamshire, NG16 6HX, United Kingdom.

T: +44 (0)1623 518 350 E: info@reader.co.uk W: reader.co.uk

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Danger

Causes serious eye damage
Causes skin irritation

May cause allergic skin reaction
May cause respiratory irritation

