

40N Easyflow Concrete

Technical data sheet

40N Easyflow Concrete is an improved product which is prepared by blending Heidelberg Materials cement CEM I 52.5N, with GGBS, 0/2mm sand, 0/4mm lightweight aggregates along with 4/10mm coarse aggregate to balance weight saving benefits with strength.

The mix proportions are designed to achieve a mean strength greater than 40N when the product is mixed to a target consistence of S2 (50-90 mm slump). Typical water addition required to meet these properties is approximately 2L.

The lightweight expanded clay is very absorbent so this product contains a workability aid to improve consistence (workability) and overall performance.

Benefits

Concrete can be used for a wide range of building projects requiring a concrete with high compressive strength.

Benefits

The benefits of pre-packed 40N Easyflow Concrete include:

- Contains GGBS giving improved durability and sustainability
- Minimum 380kg total cementitious powder content
- Easy to use, just add water
- Saves time, quick and convenient
- Same volume less weight, improving manual handling
- Contains workability aid
- Rounded lightweight aggregates which also enhance flow of product

Quality

Manufactured to the requirements of BS 5838 and factory production control testing is undertaken. The end user is responsible for any conformity testing and certification.

Addition of other material

40N Easyflow Concrete is a pre-packed concrete. The addition of admixtures is not necessary and could adversely affect the performance of the finished product.



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Instructions for use

All surfaces to be worked should be free from oil, grease and any loose material. The area where concrete is to be placed should be prepared to prevent loss of moisture from the wet concrete.

For best results, mix thoroughly using a mechanical mixer, empty the bag of 40N Easyflow Concrete into the mixer and blend until uniform. Slowly add clean water until the desired consistency or slump characteristics are achieved.

Alternatively, empty the bag onto a clean, flat moisture resistant surface, such as a mortar tray. Slowly add clean water until the desired consistence or slump characteristics are achieved, by thoroughly mixing with the aid of a shovel or similar.

Please note: The contents of the bag may segregate during transport and handling. To ensure satisfactory performance, the entire contents of the bag should be mixed thoroughly.

If only part of the bag is required at a time, mix together the entire contents on a clean, dry surface. Return surplus to the bag or other suitable container.

Avoid adding too much water whilst mixing as this will weaken, affect the setting time, and affect the durability of the concrete mix.

For best results, use the concrete within 30 minutes of mixing with water. Protect newly laid concrete from the weather until fully hardened. Concrete strengths are improved by keeping the concrete damp during hardening.

Application temperature: +5°C to +30°C.

Packaging and storage

- This product must be stored in unopened bags clear of the ground in cool dry conditions and protected from excessive draught.
- If stored correctly, as detailed above, the chromium (VI) in this product will remain within required levels for up to 12 months from the date shown on the bag.
- Use of this product after the declared storage period, as detailed above, may increase the risk of an allergic reaction following direct contact with skin.
- 40N Easyflow Concrete is packaged in extra tough weatherproof plastic that can be stored outside, and is easier to open and pour from the bag.

Health and safety

Cement causes skin, eye and respiratory irritation, severe burns and dermatitis. Always wear suitable personal protective equipment (PPE) and refer to the full Material Safety Data Sheet for further information.

Hexavalent Chromium (VI)

In accordance with the UK REACH Regulation, the soluble chromium (VI) content is limited to a maximum of 2ppm. The chromium (VI) content is determined

Technical support

For technical and safety data please see **www.heidelbergmaterials.co.uk**

Heidelberg Materials Customer Services Centre:

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