

Technical Information

Self Compacting Concrete

DESCRIPTION

Self-Compacting Concrete is a range of free flowing easily placed materials that have multiple benefits in both their fresh and hardened states. These concretes are produced and delivered using volumetric concrete mixers. Water is only added to the mix at the point of use.

USES

Accumix have extensive experience in delivering concrete solutions across a range of sectors that include road, rail, air, infrastructure, commercial and domestic. These concretes are particularly suitable for slabs where flat smooth surface finishes are required or for long distance pumping where access is restricted. The concretes are suitable for use in structural, void fill, and flooring applications. They can be placed directly, via skip or bucket and pumped.

KEY PROPERTIES

Free flowing

Self-compacting

Hard smooth finished surface

Hanson Regen Cement

Macro Synthetic Structural Fibres

BENEFITS

Easy and fast to place

Long distance pump applications up to 300m

Fewer pour points

Reduced labour

Reduced site operations;

No need for powered vibrators to consolidate the concrete

No need float finish

No need to power float, reduced install times

Low technology application tools

Suitable to receive floor finishes

50% reduction in CO₂

Increased life

Increased resistance to aggressive environments

Reduced site operations;

Replace the need for steel/mesh reinforcement

TYPICAL PERFORMANCE

Slump-flow Class SF3 750 to 820mm

Strength performance (Nmm-2)	1 Day	2 Days	3 Days	7 Days	28 Days
SCC 35	4.0	10.0	22.0	35.0	50.0
SCC 30	3.0	8.0	15.0	30.0	40.0

COMPOSITION

Self-Compacting Concretes consist of specially blended binders, PC 42.5N CEM IIIA (BSEN 197) and carefully selected concrete aggregates (BSEN 1260).

AVAILABILITY

Self-Compacting Concretes are delivered in bulk ready to use from load sizes above 0.25m³. Accumix have three depots in the West Midlands supplying Self-Compacting Concrete from Stafford to Worcester and Solihull to Much Wenlock.

QUALITY

Accumix operate a BSI accredited ISO 9001 quality scheme.

HEALTH & SAFETY

Health & safety advice, which must be followed, can be found on the binder Material Safety Data Sheet. Users are advised to wear goggles, gloves, overalls and protective foot ware when handling cementitious products. Portland cement contains Chromium IV which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before re-use. 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.

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