

Technical Information

High Early Strength Concrete

DESCRIPTION

High Early Strength Concrete are a range of products designed to meet specified return to service requirements in compressive strength. 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 high early strength concrete across a range of sectors that include road, rail, air, infrastructure and commercial.

The concretes are suitable for use in structural, void fill, pavement and track bed applications.

KEY PROPERTIES

- Range of early strength gain to suit contract specification
- High ultimate strength
- Various levels of consistency available to suite placement method; pump, skip & direct
- Resistance to Chlorides
- Low surface absorption
- Low shrinkage
- High freeze thaw resistance
- No specialist tools required.

TYPICAL PERFORMANCE

Strength performance (Nmm⁻²) S3 consistency at 20°C;

Product	4 hours	1 Day	2 Days	3 Days	7 Days	28 Days
PQX 420	25.0	30.0	40.0	50.0	50.0	50.0
C40 72hr	0.0	20.0	30.0	40.0	50.0	50.0
C40 48hr	0.0	25.0	40.0	45.0	50.0	50.0
C40 36hr	0.0	35.0	40.0	50.0	50.0	50.0

Set time S3 consistency at 20°C;

Product	Set Time
PQX 420	15 minutes
C40 72hr	2-4 hours
C40 48hr	2-4 hours
C40 36hr	2-4 hours

Specimen testing carried out in accordance with BSEN 12390-3 : 2009, BSEN 12390-2 : 2009 & BSEN 12390-7 : 2009.

COMPOSITION

High Early Strength Concretes consist of specially blended binders, PC 52.5N CEM 1 (BSEN 197) and carefully selected concrete aggregates (BSEN 1260).

AVAILABILITY

High Early Strength Concretes are delivered in bulk ready to use from load sizes above 0.25m³. Accumix have a network of operations offering UK wide coverage 24 hours a day 7 days a week.

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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