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UHPC

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Chapter 17

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which the specified
strength must be

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achieved and on job conditions: 1. Type III or HE high-early-strength cement 2. High cement content (400 to 600 kg/m³ or 675 to 1000 lb/yd³) Table 17-3 (Metric). Typical High-Performance Concretes Used in Structures

Mixture number	1	2	3	4	5
6 Water, kg/m ³	151	145	135	145	130
	130	130			

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Memphis

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concrete concrete (hpc)

exceeds the properties

and constructability of

normal concrete. normal

and special materials are

used to make these. Sign

in Register; Hide.

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• • • • • • • •
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(HPC) exceeds the properties and constructability of normal concrete. Normal and special materials are used to make these specially designed concretes that must meet a combination of performance requirements.

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strength must be

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(Metric). Typical High-Performance Concretes Used in Structures

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Performance Concrete

- High modulus of elasticity
- High abrasion resistance
- High durability and long life in severe

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environments • Low permeability and diffusion • Resistance to chemical attack • High resistance to frost and deicer scaling damage • Toughness and impact resistance • Volume stability • Ease of placement • Compaction without segregation • Inhibition of bacterial and mold growth High-

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performance concretes
are made with carefully
selected ...

Engineering

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CHAPTER 17 High-
Performance Concrete ...

High Performance
Concrete book. From
material to structure.
Edited By Y. Malier.
Edition 1st Edition . First
Published 1992 . eBook
Published 8 May 2018 .

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Pub. location London .
Imprint CRC Press
Back to book. chapter 17.
24 Pages. Permeability, as
Seen by the Researcher.
By D. Perraton, P.C.
Aitcin ...

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of High Performance
Concrete for Bridges

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6 – 17 Chapter Three -
Current Specifications
and Practices for Cast-in-
Place Concrete 18 – 24
Chapter Four - Current
Specifications and
Practices for Precast,
Prestressed Concrete
Girders and Deck Panels
25 – 29

Chapter Five - Case
Examples of High
Performance Concrete ...

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Chapter 17 Structural Tests and Special Inspections Section 1701 General 1701.1 Scope

The provisions of this chapter shall govern the quality, workmanship and requirements for materials covered.

Chapter 17: Structural Tests and Special Inspections, 2010 ... High-performance

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Concrete may be defined as concrete with strength and durability significantly beyond those obtained by normal means. The required properties for concrete to be classified as high performance therefore depend on the properties of normal concrete achievable at a particular time and location.

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Concrete - an overview | ScienceDirect Topics

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Concrete Resistivity

Regular Mix HPC,

particularly that

formulated with silica

fume, has 10% 18% 2%

25% 45% very high

resistivity, up to 20 to 25

times that of

normal concrete.

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High performance
concrete - slideshare.net
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The American Concrete
Institute (ACI) defines
high-performance
concrete as concrete
meeting special
combinations of
performance and
uniformity requirements
that cannot always be
achieved routinely when
using conventional

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constituents and normal mixing, placing and curing practices.

High Performance vs High Strength Concrete

...

Collect concrete - collect your own concrete
Special concretes for multi storey and high rise construction ... They have a proven high level of technical performance.

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For more detailed product information please click here. ...

Topcrete Solid Midi (290 x 215mm) (7.3n, 10.4n, 17.5n & 22.5n) ...

Tarmac | Topcrete Standard

It discusses materials for concrete, such as portland cements, supplementary cementing materials,

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aggregates, admixtures and fibers; air entrainment; procedures for mix proportioning, batching, mixing, transporting, handling, placing, consolidating, finishing, and curing concrete; precautions necessary during hot- and cold-weather concreting; causes and methods of controlling volume changes;

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commonly used control tests for quality concrete; special types of concrete, such as high-performance ...

ISG Product - Portland Cement Association

This book contains the proceedings of the international workshop “ Designing and Building with Ultra-High Performance Fibre-

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Reinforced Concrete
(UHPFRC): State of the
Art and Development ” ,
organized by AFGC, the
French Association for
Civil Engineering and
French branch of fib, in
Marseille (France),
November 17-18, 2009.

Designing and Building
with UHPFRC | Wiley
Online Books
Features of High-

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Concrete. Concrete.

Compressive strength > 80 MPa ,even up to 800 MPa; High-performance

concrete is quite brittle but the introduction of fibers and can improve ductility. High durability;

Water binder ratio (0.25-0.35), therefore very little free water;

Reduced flocculation of cement grains; Wide range of grain sizes;

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Densified cement paste

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Concrete: Composition,
and Features

High performance

concrete mix is

proportioned on basis of

low water-binder ratio,

so it was necessary to add

water reducer and

superplasticizer to get the

required workability. For

KLCC project, water

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reducer Pozzoloth 300N and superplasticizer Rheobuild 1000 were used, and both are MASTER BUILDERS ' products.

Application of High Performance Concrete
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- modulus of elasticity
- High abrasion resistance
 - High durability and long life in severe environments
- Low permeability and diffusion
- Resistance to chemical attack ...

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