

PRODUCT DATA SHEET

THE ULTIMATE PERFORMANCE CONCRETE

FEATURES & BENEFITS

- ▶ High Strength
- ▶ Superior Concrete Stiffness
- ▶ Outstanding Durability
- ▶ Sleeker Buildings
- ▶ Stiff and Rigid Concrete Cores
- ▶ Highly Chemical Resistant
- ▶ Build Far More With Less

APPLICATIONS

- ▶ Walls, Columns and Beams
- ▶ Tight Tolerance Buildings
- ▶ Marine, Flood and Coastal Sea Defences
- ▶ Tunnel Linings
- ▶ Concrete Frame Car Parks
- ▶ Heavily Trafficked Concrete Floors
- ▶ Flat Suspended Concrete Floors

USE

- ▶ Do not add water or any other additive to DYNAMax on the job site
- ▶ Concrete should not be poured during periods of prolonged and high ambient temperature
- ▶ Adhere to all health and safety regulations when handling concrete. Proper PPE must be worn; goggles, hard hats, gloves, boots and reflective clothing is recommended.
- ▶ Working life of up to 90 minutes from time of batching indicated on the delivery ticket.
- ▶ Pre pour meeting prior to use is strongly recommended.
- ▶ DYNAMax is circular and can be recycled into a crushed concrete aggregate at end of use.

INTRO

DYNAMax is High Performance Concrete (HPC) meeting special combinations of performance and uniformity requirements that cannot always be achieved routinely using conventional constituents.

HPC is an engineered concrete product designed through a careful selection and proportioning of its constituents. The main features of DYNAMax are strength, durability, stiffness and the ability to build far more, with less concrete.

RANGE

	DYNAMax	DYNAMax ^{XD}	DYNAMax ^{XR}	DYNAMax ^{XRD}
HIGH STRENGTH	▶	▶	▶	▶
OUTSTANDING DURABILITY		▶		▶
SUPERIOR STIFFNESS			▶	▶

APPLICATIONS

Many applications are possible with DYNAMax, including walls, beams, columns and flat slabs within many structural and civil construction projects. In these applications, DYNAMax enables the use of thinner cross-sections for columns, walls and slabs as well as substantially wider spans and wider column grids. This offers greater design flexibility, improved functionality and more usable space for the same building volume.



DYNAMax allows for increased freedom in architectural design that enables the execution of sophisticated, cantilevered and bold ideas in concrete.

DYNAMax provides flexibility in structural designs of components and structures to use less concrete and steel reinforcement. Resulting in lighter elements, lower dead load and reducing the overall carbon footprint of the building.



TECHNICAL DATA

DYNAMax is fully compliant with BS 8500-2:2015+A2:2019.

	DYNAMax	DYNAMax^{XD}	DYNAMax^{XR}	DYNAMax^{XRD}
HIGH STRENGTH	C60/75 - C90/105 N/mm ^{2*}	C60/75 - C90/105 N/mm ^{2*}	C60/75 - C90/105 N/mm ^{2*}	C60/75 - C90/105 N/mm ^{2*}
OUTSTANDING DURABILITY		Max chloride ion coefficient 3x10 ⁻¹² m ² /s**		Max chloride ion coefficient 3x10 ⁻¹² m ² /s**
SUPERIOR STIFFNESS			From 40 GPa***	From 40 GPa***

TESTING

Plastic and hardened testing is to be completed in accordance with the appropriate part of BS EN 12350 and BS EN 12390. Hardened test samples cast as cylinders will require end grinding.

TRANSPORT

Before arranging for transportation and delivery of DYNAMax please; confirm site access is suitable for truck deliveries, consider the use of a concrete pump for sites with access difficulties, ensure concrete pump is ready prior to batching, and confirm there are no height restrictions that could hinder site access.

LET'S TALK ABOUT YOUR IDEAS

Further information available at aggregate.com/DYNAMax

ORDERING

When ordering DYNAMax please confirm the required compressive strength grade and consistence class / slump flow value. Where an elastic modulus requirement exists, then coordinate your deliver with our local Technical team

PLACEMENT

DYNAMax is readily placed by all conventional methods with excellent pumping properties and high workability characteristics. Placement, compaction, finishing and curing methods must follow established procedures and best practice in order to yield the optimum performance.

*At 28 day or 56 day compliance. **Chloride Ion Migration Determined in Accordance with NT Build 492, 1999-11. ***Modulus of Elasticity in Compression of Concrete is determined in accordance with BS EN 12390-13:2013, method B.

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