

BREEDONFlow® Precast IS A HIGHLY BESPOKE PRODUCT. THE WORKABLE PROPERTIES OF THIS CONCRETE MEAN IT CAN BE UNIQUELY CUSTOMISED TO STRENGTH REQUIREMENTS SUCH AS THOSE TYPICALLY NEEDED IN PRE-CAST FACTORY DESIGN.

As with all the products in the BREEDONFlow® range, the traditional methods of placing and finishing concrete are not needed, making it the product of choice for fast, flexible delivery.

APPLICATIONS

- Precast factory
- Bespoke finishes
- Walls
- Columns
- All types of building with vertical construction

BENEFITS

- High quality fully customisable product
- Workability
- No need for traditional placing and finishing
- Matched to customer strength requirements
- Fast, flexible delivery

SURFACE QUALITY OF THE FORMWORK MATERIAL

One of the major benefits to BREEDONFlow® Precast is the fact that it produces an outstanding concrete surface finish. Remember that BREEDONFlow® Precast perfectly mirrors the quality of the formwork.

FORMWORK RELEASE AGENTS

The proper selection of form release agents for BREEDONFlow® Precast projects is a critical activity for the formwork contractor since they can have a dramatic effect on the quality of the formed concrete finish. Greater care must also be taken when applying these materials since excess form release agents can result in staining and retention of air bubbles at the formed surface.

TESTING

Slump Flow – This test method evaluates the ability of the concrete to flow under its own weight in an unconfined condition. This test method involves filling an inverted slump cone full of concrete without consolidating the material on a non-absorbent rigid surface, lifting the slump cone and measuring the diameter of the resulting concrete that is formed.



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ENGINEERING PROPERTIES

Self-Consolidating Concrete and conventional concrete that is vibrated to properly consolidate have similar compressive strength and performance properties.

While compressive strength is the most common property used in concrete evaluations, there are other important material properties that need to be considered. The typical performance properties include:

Compressive Strength –

BREEDONFlow® Precast will typically have a slightly higher compressive strength when compared to a conventional concrete of similar

w/c ratio. This is due to the improved interface between the aggregate and the hardened paste.

Tensile Strength – For a given concrete strength and maturity the tensile strength can normally be assumed to be the same as conventional concrete. This is due to the fact that the paste volume has no significant impact on tensile strength.

The key architectural benefits that BREEDONFlow® Precast mixes provide over conventional concretes include:

- More uniform colour
- Provides very sharp edges with the use of the correct formwork
- Significant reduction in the number of bugholes with the use of proper form release agents and formwork quality.
- Eliminates air pockets under horizontal formwork elements when the concrete is properly placed
- Higher quality of surface finish

SPECIFICATION OVERVIEW

Maintenance of fluidity	bespoke to customer application
Compressive strength at 28 days	bespoke to customer application



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The information given in this technical datasheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Breedon Group plc endeavours to ensure that the information given is accurate but accept no liability for its use or its suitability for a particular application because of the product being used by the third party without our supervision.

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