



HOPE
Construction Materials

Renowned for its ease of use, the quality finish that can be attained with **HOPEFlow™** concrete makes it suitable for all general construction purposes. Its unique fluidity completely fills areas with complex access and intricate formwork. The need for compacting and power floating is negated, making this multi-purpose material simple and fast to deploy.



HOPE™
Flow
FORM

DATASHEET

HOPEFlow Form™ is able to flow and consolidate on its own. At the same time it is cohesive enough to fill spaces of almost any size and shape without segregation or bleeding.

This makes **HOPEFlow Form™** particularly useful wherever placing is difficult, such as in heavily reinforced concrete members or in complicated formwork.

HOPEFlow Form™ is highly flowable, non-segregating concrete that can spread into place under its own weight to fill formwork and encapsulate extremely congested reinforcing steel, with little or no mechanical vibration. The unique properties of **HOPEFlow Form™** give it significant economic, constructability and aesthetic performance on conventional construction projects.

HOPEFlow Form™ allows for rapid concrete placement with significantly reduced labour requirements, consolidation and finishing. The outstanding flow characteristics of **HOPEFlow Form™** can also result in dramatically improved surface finishes. Its use for architectural applications is increasing significantly.

Uses

- ✘ Complex formwork
- ✘ Domestic floors
- ✘ Slabs
- ✘ Structural toppings
- ✘ Intricate reinforcement
- ✘ Commercial slabs including deck construction
- ✘ Low traffic industrial floor slabs

Benefits

- ✘ Flows efficiently into place from single point
- ✘ Speed of placement
- ✘ Helps attain quality finish

HOPEFlow Form™
– a general purpose
grade for use in
framed and general
construction





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Pumping **HOPEFlow Form™**

Placing **HOPEFlow Form™** using a concrete pump is one of the most common placement methods. Pumping places the concrete as close as possible to its final position and provides an easily controlled rate of placement.

When placing **HOPEFlow Form™** with a concrete pump the hose of the pump should be placed inside the formwork and under the concrete surface whenever possible.

This installation method both reduces the possibility of entrapping additional air within **HOPEFlow Form™** and eliminates the potential for material segregation due to free-fall around the reinforcing steel and form hardware. Pumping should provide a continuous even concrete rise rate within the formwork with as few breaks in product delivery as possible.

Testing **HOPEFlow Form™**

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.

Curing Requirements for **HOPEFlow Form™**

While curing is obviously critical for all concrete construction, this is especially true for the top surface of **HOPEFlow Form™**. Because of the increased quantity of paste and lack of bleed water at the surface, SCC is susceptible to surface drying.

SPECIFICATION OVERVIEW

Maintenance of workability	= two hours
Minimum thickness	= 75mm
Compressive strength at 28 days	= 35N/mm ²
Workability of slumpflow between	650-750mm

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**Britain's leading
independent
concrete supplier**



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. Hope Construction Materials 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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