



# FORMIX

## Concrete Mixtures

# FORMFLOW-EXTRA

## Super Plasticiser for Concrete and Mortar

### Description

A liquid plasticiser and water reducing agent that imparts extremely high workability when added to a concrete mix or a cementitious grout. Being a highly effective deflocculating agent it disperses cement paste into its primary particles significantly increasing the flow characteristics of the paste.

### Benefits

- Enables concrete to achieve high compaction with minimal or no vibration or tamping.
- Increases flow characteristics of concrete to assist with difficult pours.
- Permits significant reduction in water content of normal workability concrete with consequent reduction in water/cement ratio to produce higher early and ultimate strengths.

### Addition

The optimum addition rate of **FORMFLOW EXTRA** is best determined after preliminary trials with the actual concrete under consideration. As a guide for carrying out trials an addition rate of 0.5 litres to 1.5 litres per 100 kilos Portland cement is recommended. Where high early and ultimate strength concrete is required, necessitating a steep reduction in water/cement ratio, the addition rate of **FORMFLOW EXTRA** may be increased up to 2.0 litres per 100 kilos Portland cement.

### Mixing

**FORMFLOW EXTRA** is best added during the mixing cycle preferably at the same time as the water. Alternatively it may be added to a normal concrete mix just prior to the pour allowing for a further mixing cycle of at least 2 minutes.

### Typical Comparisons

The following data is typical of what can be expected when comparing a concrete mix with the inclusion of **FORMFLOW EXTRA** to a control mix.

#### High Workability Self Compacting Concrete

- Aggregate/Cement Ratio 5.2:1
- W/C Ratio - Control Mix 0.58
- W/C Ratio - Test Mix 0.58

#### FORMFLOW EXTRA -Test Mix 1.0 litre per 100 kg OPC

- Slump - Control Mix 50mm
- Slump - Test Mix Collapse

#### Compressive Strength -Test Mix:

- 7 days: 102% of control
- 28 days: 103% of control

#### High Early & Ultimate Strength Concrete

- Aggregate/Cement Ratio 5.2:1
- W/C Ratio - Control Mix 0.58
- W/C Ratio - Test Mix 0.47

#### FORMFLOW EXTRA -Test Mix 1.25 litre per 100 kg OPC

- Slump - Control Mix 50mm
- Slump - Test Mix 150mm

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### Compressive Strength - Test Mix

- 1 day: 180% of control
- 7 days: 144% of control
- 28 days: 135% of control

### Storage & Shelf Life

Store at temperatures above freezing but not above 28°C in dry condition and under cover. Should freezing occur, completely thaw material and then mix thoroughly before use. In these circumstances shelf life is indefinite.

### Specification Clause

**FORMFLOW EXTRA** manufactured by **FORMAST** Building Chemicals Ltd shall be added to the concrete mix in accordance with the manufacturers recommendation.

### Health & Safety

**FORMFLOW EXTRA** is non-hazardous in normal use. If splashes should affect the eyes bathe immediately with copious quantities of clean water and then immediately seek medical advice. Reference should be made to the separate Health and Safety literature.

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