

Adoflow Extra

Technical Specifications



Super Plasticiser for Concrete and Mortar

A liquid plasticiser and water reducing agent that imparts extremely high workability when added to a concrete mix

Being a highly effective deflocculating agent, it disperses cement paste into its primary particles, significantly increasing the flow characteristics of the paste.

This permits significant reduction in water content of normal workability concrete producing higher early and ultimate strengths.

ADOFLOW EXTRA also enables the concrete to achieve high compaction with minimal or no tamping and its increased flow assists with difficult pours

Advantages

- 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.

Application

The optimum addition rate of ADOFLOW 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 of 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 ADOFLOW EXTRA may be increased up to 2.0 litres per 100 kilos Portland cement.

Mixing:

ADOFLOW 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 ADOFLOW EXTRA to a control mix.

Water Reduction	EN 12350-2	Result 17%	EN934-2 Requirement >12% of control mix
Compressive Strength	EN 12390-3	1 day 146%	EN934-2 Requirement >140% of control mix
		28 days 117%	>115% of control mix
Air Content	EN12350-7	+1.5%	EN 934-2 Requirement Test Mix <2.0%
Increase in Consistence	EN 12350-2	+150mm	EN 934-2 Requirement >120mm
Retention of Consistence	EN 12350-2	PASS	EN934-2 Requirement 30mins after addition consistence shall not fall below the value of the initial consistence of the control mix
Compressive Strength	EN12390-3	Result 109%	EN 934-2 Requirement At 28 Days Test Mix >90% of control mix
Air Content in fresh concrete	EN 12350-7	+1.5%	EN934-2 Test Mix <2% by volume of control mix

Yield

1.2 Litre of ADOFLOW EXTRA per 100Kg of Portland Cement

Storage

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.

Shelf Life

If stored in accordance to the above, In these circumstances shelf life is indefinite.

Specification

ADOFLOW EXTRA is manufactured by Adomast Manufacturing Ltd and shall be applied in accordance with the manufacturer's instructions

Health and Safety

ADOFLOW 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.