

Data Sheet

ADOFLOW-S

Standard Set Plasticiser



The addition of **ADOFLOW-S** to an existing concrete mix facilitates up to 25 % reduction in added water content for a given slump with the resultant marked reduction in water/cement ratio providing increased strengths. Alternatively it will increase slump by up to 150 % without any increase in water content. **ADOFLOW-S** is therefore used to:

- Increase strengths without loss of workability
- or, maintain specified strength with reduced cement content
- or, improve workability without an increase in water/cement ratio.

The inclusion of **ADOFLOW-S** in a well designed concrete mix will also provide:

- Easier and speedier placing and compaction
- Reduced shrinkage and minimal cracking
- Minimal segregation and bleeding
- Increased density and impermeability
- Superior finish.

Use

100-140 ml **ADOFLOW-S** to 50 kilos Portland cement, added to the gauging water or pre-wetted mix. Suitable for use with all types of Portland cement.

Composition

A concentrated aqueous solution of lignin based water reducing agent containing no chlorides or nitrates.

Cement Economy

A concrete mix, designed to provide a specific compressive strength might be substantially reduced in cost by redesigning with the inclusion of **ADOFLOW-S**. A suggested method of redesigning is as follows:

1. Reduce weight of cement by 10 - 15 %
2. Increase weight of fine aggregate by 25 % of the weight saved in cement
3. Increase weight of large aggregate by 50 % of the weight saved in cement
4. Reduce total water by up to 20 % to give equal workability
5. Add **ADOFLOW-S** at rate of 140 ml to 50 kilo cement

A typical example of the use of this method is as follows:

	Existing Mix	Redesigned Mix
Cement	300 kg	255 kg
Fine Aggregate	505 kg	516 kg
Coarse Aggregate	875 kg	897 kg
Water (total)	155 kg	kg
Water/Cement Ratio	0.52	0.49
ADOFLOW-S	None	714 ml
Aggregate/Cement Ratio	4.6:1	5.5: 1

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The redesigned mix will show a considerable saving in cost of cement with no loss of strength or yield.

Specification Clause

ADOFLOW-S Standard Setting Plasticiser manufactured by **ADOMAST** Building Chemicals limited, shall be added to the concrete mix in accordance with the manufacturers recommendations.

Storage

Protect from freezing. In the event of freezing, material should be completely thawed and then thoroughly mixed before use.

Health & Safety

ADOFLOW-S is non toxic and non-flammable. Any splashes should be washed with water, if contact with eyes occurs wash thoroughly with water. If irritation persists seek medical advice.
Refer to separate **ADOFLOW-S** Health and Safety leaflet.