

Data Sheet

ADOFLOW-ACF

Accelerated Chloride-Free Plasticiser



ADOFLOW A/CF is a chloride-free accelerating admixture with plasticising properties. It is therefore ideal for use when it is desired to accelerate the set and rate of strength gain of concrete in instances where Specification or Code of Practice, such as that for prestressed concrete, does not permit the use of calcium chloride.

The inclusion of **ADOFLOW-A/CF** in a concrete mix will:

- Accelerate initial and final set
- Provide higher early strengths
- Increase rate of strength gain
- Permit earlier release of formwork
- Enable earlier safe handling of precast units
- Provide safer winter concreting without delays
- Improve workability
- Enable reduction in water content.

USAGE

1250 ml. **ADOFLOW-A/CF** to 50 Kg Portland Cement added preferably to the gauging water or alternatively add direct into the mixer at the same time as the gauging water after the aggregates and cement have been mixed.

Accidental overdosing, even to double the recommended quantity, will result in slight increase in initial acceleration but no significant alteration in cured properties.

ADOFLOW-A/CF is suitable for use with all types of Portland Cements.

It is possible that on prolonged storage at very low temperatures a slight sediment may occur in the material. An occasional stir will quickly revert the sediment back into solution.

Typical Effect on Compressive Strengths at Different Ages

Tests carried out to compare a concrete mix including **ADOFLOW-A/CF** with a control mix. The aggregate/cement ratio of the mixes 4.7:1, water/cement ratio adjusted to give equal slump of 65 mm, and curing temperature was 15⁰ C. The results obtained are typically as follows:

ADOFLOW-A/CF Per 50 kg cement	Type of Cement	W/C Ratio	Compressive strength (MPa)				
			16 hrs	24 hrs	3 days	7 days	28 days
Nil	OPC	0.58	4.9	8.3	16.2	26.5	41.8
1250 ml	OPC	0.54	12.9	15.5	34.2	42.1	49.2

Typically tests show that the percentage early strength gain over a control mix is greater when the cement content of the mix is greater.

Storage

Store in cool temperature, but above freezing, and stir just prior to use. In the event of freezing, material should be completely thawed and then thoroughly mixed before use. Shelf life is approximately 1 year.

Specification Clause

ADOFLOW-A/CF Accelerated Chloride-Free Plasticiser manufactured by **ADOMAST** Building Chemicals

Lea Road, Trading Estate, Waltham Abbey, Essex EN9 1AE
Tel: 01992 710 684 Fax: 01992 712 813
Email: sales@adomast.co.uk Website: <http://www.adomast.co.uk>

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Limited shall be added to the concrete mix in accordance with the manufacturer's recommendations.

Health and Safety

ADOFLOW-A/CF is non-flammable and harmful by ingestion. Prolonged contact with skin should be avoided. Any splashes should be washed well with water. If contact with eyes occurs wash thoroughly with water and seek medical advice.

Refer to separate **ADOFLOW-A/CF** health and safety leaflet.