

MONOSET ACF



Alkali free sprayed concrete accelerator for sprayed concrete and mortar

DESCRIPTION

Monoset ACF is a rapid set accelerator in liquid form for cementitious mixes.

Monoset ACF is a set accelerating, alkaline and chloride free admixture specially designed to achieve rapid setting with minimum rebound for applications of sprayed concrete, shotcrete and gunite processes.

ADVANTAGES

Rapid set allows thick sections to be built-up.

- Excellent for overhead applications.
- Alkaline free.
- Single pass spraying for thick layers.
- Can be used for 'wet and dry' processes.
- Minimum rebound.

COMPATIBILITY

Monoset ACF can be used with all types of Portland cement and cement replacement materials.

Monoset ACF is compatible with other STARKE admixtures when used in the same concrete mix.

If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

STANDARDS

Monoset ACF complies with ASTM C1141, Type I and II, Grade 9.

METHOD OF USE

Stiffening occurs approximately after 10 seconds of mixing concrete with Monoset ACF.

As with all other processes and products, the rapid initial acceleration of the cement hydration process, will affect the ultimate concrete strength.

DOSAGE

The optimum dosage for Monoset ACF to meet specific requirements should be determined by trials using the materials and conditions that will be experienced in use.

This can best determine the optimum dosage to be used and will ensure most cost effective site application.

TECHNICAL PROPERTIES 25°C:

Colour:	Pale straw liquid
Specific gravity:	1.38 ± 0.1
PH:	2 - 5
Viscosity:	400 ± 100 mPa.s (cp)
ASTM D1084	
Chloride content:	< 0.1%
Setting time*	@ EN 196-3
8% dosage range:	
Initial setting time:	≤ 6 min
Final setting time :	≤ 9 min

The above data was developed under controlled laboratory conditions. Properties in the field may vary. Expect reasonable variations from these results, depending on cement type, jobsite or test conditions

The typical dosage range for Monoset ACF is 3.0-10% by weight of cementitious and cement replacement material, including PFA, GGBFS or microsilica, which can be used as a starting point for the trials.

USE AT OTHER DOSAGES

Dosages outside the typical range quoted above may be used if necessary to meet particular mix requirements.

Compliance with requirements must be assessed through trial mixes.

For further information and support, contact STARKE Technical Staff.

EFFECTS OF OVER DOSAGE

An overdose of the intended amount of Monoset ACF will result in reduced setting of the mix and will result in some loss of strength.

DISPENSING AND MIXING

Monoset ACF is normally introduced directly after the air ring in the spray nozzle. In order to obtain a consistent supply of admixture at the nozzle the delivery system should have a 600 KPa pressure pot, and a 20 mm inside diameter pressure delivery hose controlled by a pressure restrictor and tap. With 'wet process' the use of a water reducing admixture to reduce the water content while increasing workability of the mix is recommended.

CLEANING

Monoset ACF can be washed with fresh cold water.

PACKAGING

Monoset ACF is available in 20, 200 & 1000kg plastic drums supply Material needs good mixing before usage, and for bulk storage, site agitation or recycling pumps is a must.

If these conditions are exceeded, STARKE Technical Department should be contacted for advice.

CAUTIONS

Health and Safety

Monoset ACF is not a classified hazardous material

Monoset ACF should not come into contact with skin and eyes. Goggles and gloves should be used. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

FIRE

MONOSET ACF is nonflammable.

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Important note :

Starke range products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Starke endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation, opinion or information given by it.

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