

Talrakset® AF (W)

High performance alkali free liquid accelerator for sprayed concrete



The Construction Alchemists

Description

Talrakset® AF (W) is a high performance alkali-free set accelerator designed for use in the wet sprayed concrete. Talrakset® AF (W) is a liquid additive whose dosage can be varied to a desired setting and hardening times.

Features & Benefits

- The accelerated setting properties allow overhead layer thickness of 150mm thick in a single application.
- The unique formula provides good early strength development, limits, the decrease of final strength associated with accelerators.
- Since it is a liquid product, it is easy to wet the concrete.
- Its Alkali free nature improves safety which is one of the important factors in maintaining conducive work environment, especially in the closed work environment like tunnels.
- It proves to be economical by reducing required handling precaution.

Technical Properties

Appearance	Translucent pale liquid
Density	1.44 ± 0.01 g/cm ³
pH Value	2.0 - 3.0
Viscosity	750mPas ± 250mPas
Chloride Content	<0.1%

Dosage

2 - 7% by weight of total cementitious, binder content.

Compatibility with cement

It is recommended to use fresh cement since the age of the cement will have an adverse effect on the setting time of the mix Talrakset® AF (W) can be sensitive to the type of cement. It is recommended to use normal Portland cements which normally give faster setting time than blended or sulphate resistant cement type. However Talrakset® AF (W) can also work well with composite cement types (blended, fly-ash/slag).

Mix Design

When Talrakset® AF (W) is used for wet-mix spraying, the w/c ratio should be below 0.5, preferably <0.45. Moisture (water) contained in the aggregates must be taken into account. The lower the w/c ratio, the better the results achieved like faster setting higher early strengths, lower the accelerator dosage, larger overhead layer thickness.

At a w/c ratio >0.5 slower setting and lower the early strength is expected.

Talrakset® AF (W) is not very sensitive to concrete slump and works also well with high slump sprayed concrete (>200mm).

Application Instruction

Prior to the use of Talrakset® AF (W) the dosing pump, incl. suction hose (filter) and accelerator hose, must be thoroughly cleaned with plenty of water. During the application, the whole pumping system should be cleaned with water as soon as it is used. Failure to do this, can cause blockages in the dosing system.

Estimating Packaging

Talrakset® AF (W) is supplied in 20kg & 220kg barrel.

Storage

Talrakset® AF (W) should be stored in its sealed drums, protected from moisture. A minimum shelf life of 6 months can be expected.

Precautions

Health and Safety Instructions

Talrakset® AF (W) has no specific health hazards; it is non toxic but should not be ingested. Any eye contamination should be flushed with clean water and medical advice should be sought.

Important note :

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Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

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