

PRODUCT INFORMATION BULLETIN

DESCRIPTION

AD-TEK SS is used for cement hydration control providing the setting and hardening stabilisation of shotcrete mixes for long periods of time without negative influence on their quality. The stabilised shotcrete mixes can be reactivated hours later with **AD-TEK SA** after delivering them to the building site.

AD-TEK SS is in accordance with Australian Standard AS1478.1 – 2000 as a Special Purpose Retarding Admixture.

USES

AD-TEK SS is used when the prevention of cement hydration is required for wet or dry shotcrete. The main uses are:

- Rock support mine and tunnel construction
- Final lining or temporary protection of sewer tunnels, city tubes, railways, roads and hydropower projects
- Working pit, slope and rock stabilization
- Repair of construction structures
- High-grade shotcrete for general construction work

ADVANTAGES

- Blocks cement hydration for 3 to 72 hours without loss of quality.
- Provides flexibility from batching through delivery and storage.
- Time and cost saving through better allocation of materials, equipment and manpower.
- Can be activated and accelerated with AD-TEK SA without loss of quality.
- Does not contain materials promoting steel corrosion.

TECHNICAL DATA (typical)

Appearance	Transparent liquid
Colour	Pale emerald
Density at 20°C	1.095 kg/litre
pH value	Approx. 3.0
Chloride Content	No added chlorides
TEA Content	Does not contain triethanolamine
Air Entrainment	May slightly increase air content

APPLICATION

AD-TEK SS should be added to the shotcrete mix at the final stage of batching prior to dosing of hyperplasticizer AD-TEK SH. The stabilised shotcrete mix is transported by transmixers to the building site. In the process of shotcreting, AD-TEK SA accelerator is added at the spray nozzle to initiate fast setting.

DOSAGE

The recommended dose rate is between 250 – 2000 ml per 100 kg of cement depending on the required retardation time.

Preliminary trials on site should be conducted to determine the required dosage rates.

PACKAGING

AD-TEK SS is available in 20-litre and 1000-litre containers and in bulk.

STORAGE AND SHELF LIFE

AD-TEK SS has shelf life of at least 6 months if stored above 0°C in an unopened container made of plastic, glass fiber or stainless steel. If **AD-TEK SS** has frozen, thaw at above 1°C with mild mechanical agitation.

HEALTH AND SAFETY

AD-TEK SS contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

Disclaimer: Any advice, recommendation, information, assistance or service provided by application is in good faith and is believed by AD-TEK PTY LTD to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by AD-TEK PTY LTD is provided without liability.