

## PRODUCT INFORMATION BULLETIN

### DESCRIPTION

**AD-TEK SA** is a high performance alkali-free composite set and hardening accelerating admixture for shotcrete.

**AD-TEK SA** is in accordance with Australian Standard AS1478.1 – 2000 as Special Purpose Accelerating Admixture.

### USES

**AD-TEK SA** is appropriate for all applications where a very high early strength, good final strength and large layer thickness of shotcrete are required.

**AD-TEK SA** is mainly used in:

- Rock support mine and tunnel construction
- Slope and rock stabilization
- Poor and wet ground conditions
- High-grade shotcrete for general construction work.

### ADVANTAGES

- Alkali and chlorides free product
- Optimal performance can be achieved when using AD-TEK SH (hyperplasticizer)
- No contamination of natural waters due to wash out alkalis
- Quick setting with early strength development
- Good long-term strength and durability
- Rapid work progress
- Increases adhesion (bond) to rock and concrete substrate, making overhead and vertical spraying easier
- Significantly reduces rebound
- Low dust production
- Thick shotcrete layer during one construction sequence (by layered application)
- Good performance on wet ground

## TECHNICAL DATA (typical)

<b>Appearance</b>	Translucent liquid
<b>Colour</b>	Light beige
<b>Density at 20°C</b>	Approx 1.4 kg/litre
<b>pH value</b>	2.5-4.0

## APPLICATION

The liquid accelerator **AD-TEK SA** is metered and injected directly at the shotcrete nozzle.

The efficiency of **AD-TEK SA** depends on shotcrete ingredients, design, temperature, substrate and application method used.

It is also dependent on the w/c ratio in the wet spray process and on the addition of water during of dry spray process.

## DOSAGE

The recommended dose rate is 3% to 6% by weight of cement is recommended.  
The most effective dosage must be determined by trial.

## SHELF LIFE and STORAGE

**AD-TEK SA** must be stored at temperature between 5°C and 35°C in unopened containers made of plastic, glass fiber or stainless steel.

If these conditions are unachievable, the product may partially precipitate and mechanical stirring will be required until complete dissolving of the precipitate.

**AD-TEK SA** has shelf life of 3 months. After the prolonged storage it is recommended that the product be always fully agitated prior to use.

## PACKAGING

**AD-TEK SA** is available in 1000-litre containers, 200-litre drums and in bulk.

## HEALTH AND SAFETY

**AD-TEK SA** 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.