

## PRODUCT INFORMATION BULLETIN

### DESCRIPTION

**AD-TEK HWR-Ac** is a polycarboxylate-based high range water-reducing admixture with accelerating properties to achieve a very high early stripping strength mainly for precast concrete.

**AD-TEK HWR-Ac** can dramatically reduce mixing water, promoting high early and ultimate strengths of concrete.

**AD-TEK HWR-Ac** is in accordance with Australian Standard AS 1478.1 – 2000 as a High Range Water Reducing Admixture.

### USES

- High early strength concrete
- Precast/prestressed concrete
- Concrete requiring fast stripping time
- Concrete requiring extremely high water reduction
- Heavily reinforced concrete
- Self compacting concrete (S.C.C.)

### BENEFITS

- Extremely high water reduction: in a range of 20-40%
- Flowing concrete with accelerated stripping strength
- Super workability without segregation
- Low permeability, high durability concrete
- Low shrinkage and creep – reduced risk of cracks
- Suitable for the production of self compacting concrete

## TECHNICAL DATA (typical)

<b>Appearance</b>	Moderate viscose liquid
<b>Colour</b>	Light brown
<b>Density at 20°C</b>	Approx 1.1 kg/litre
<b>pH value</b>	3.5-5.0
<b>Chloride content</b>	None added
<b>TEA Content</b>	None
<b>Air entrainment</b>	May increase

## DOSAGE

The recommended dose rate is between 300 – 600 ml per 100 kg of cement binder.  
For self compacting concrete, the typical dosage is 700ml -1000ml per 100 kg of cement binder.  
Site trials are recommended to determine the actual dosage rate.

## APPLICATION

The maximum plasticizing effect or water reduction is obtained if **AD-TEK HWR-Ac** is added into concrete after cement is wetted out.

Thorough mixing is required for complete dispersion throughout the mix.

Because of AD-TEK HWRAc a very high early strength, the slump life is limited and timing during transportation and placement should be taken into account.

## PACKAGING, STORAGE AND SHELF LIFE

**AD-TEK HWR-Ac** is available in 20-litre containers, 1000-litre cubes and in bulk.

**AD-TEK HWR-Ac** should be stored at a temperature between 5°C and 40°C.

In an unopened original container, it has a shelf life one year

## HEALTH and SAFETY

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

*Please contact our technical department for further information*

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.