

PRODUCT INFORMATION BULLETIN

DESCRIPTION

AD-TEK HWR-3 is a third generation composite superplasticizer (hyperplasticizer) for high quality concrete, when superior performance is required.

AD-TEK HWR-3 can dramatically reduce mixing water, promoting high early and ultimate strengths of concrete.

AD-TEK HWR-3 provides relatively long slump life with normal settings times.

AD-TEK HWR-3 is in accordance with Australian Standard AS 1478.1 – 2000 as a High Range Water Reducing Admixture.

USES

- Concrete requiring extremely high water reduction
- High strength concrete
- Concrete with the highest requirements on durability and quality
- Construction sites which need reliable workability concrete
- Pumped concrete
- Self compacting concrete
- Precast concrete

BENEFITS

- Extremely high water reduction: in the range of 20-50%, resulting in high early strength
- High flowability and finishability
- 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)

Appearance	Moderate viscose liquid
Colour	Transparent brown
Density at 20°C	1.10 kg/litre
pH value	Approx. 5.0
Chloride content	None added
TEA Content	Does not contain
Air entrainment	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-3** is added into concrete after cement is wetted out.

Thorough mixing is required for complete dispersion throughout the mix.

PACKAGING, SHELF LIFE and STORAGE

AD-TEK HWR-3 is available in 20-litre containers, 1000-litre cubes and in bulk.

AD-TEK HWR-3 should be stored at a temperature between 5°C and 40°C.

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

HEALTH and SAFETY

AD-TEK HWR-3 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.