



CENTROX™ HWR-3 (Aqueous Solution)

High Range Water Reducer - Hyperplasticizer

PRODUCT INFORMATION BULLETIN

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DESCRIPTION

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

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

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

Centrox 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 at elevated temperatures
- Pumped concrete
- Self compacting concrete
- Precast concrete

ADVANTAGES

- Extremely high water reduction: in a range of 20-40 %
- Increased early and long-term strengths
- Slump retention without retardation
- Super workability without segregation
- Low permeability, high durability concrete
- Low shrinkage and creep – reduced risk of cracks
- Easy to pump concrete
- Suitable for the production of self compacting concrete

TECHNICAL DATA (typical)

- Appearance: Moderate viscose liquid
- Colour: Transparent brown
- Density at 20°C: Approx. 1.07 kg/liter
- pH value: Approx 4.8
- Chloride content: No added
- TEA Content: Does not contain
- Air entrainment: May slightly increase

DOSAGE

The usually recommended dosage rate is between 300 – 600 ml per 100 kg of cement binder. For self compacting concrete, 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 **Centrox HWR-3** is added into concrete after cement is wet out.

Thorough mixing is required for complete dispersion throughout the mix.

PACKAGING, STORAGE AND SHELF LIFE

Centrox HWR-3 is available in 20 L containers, 1000 L cubes and bulk.

Centrox HWR-3 is stored at temperature between 5 °C and 40 °C. In closed original container, it has a shelf life at list one year.

HEALTH AND SAFETY

Centrox HWR-3 contains no hazardous substances requiring labeling. For further information refer to the Material Safety Data Sheet.

Please contact our technical department for further information