



# MegaAdd UW

Underwater Stabilizer for Concrete and Mortar

**DESCRIPTION** **MegaAdd UW** is a ready to use powder admixture that prevents the 'washout' of cements and binders in water bearing ground conditions. It is used to create thixotropic gel in the water which surrounds the cement particles and protects them from washout.

**USES** **MegaAdd UW** is recommended for use in all types of concrete pumped or tremied under water where anti-washout properties are desired. **MegaAdd UW** is especially useful in extreme conditions where conventional concrete would result in a high percentage of material loss due to washout. Typical applications include; Port & harbour installations, Bridge piers in rivers, Metro systems Deep shafts in unstable & water-logged ground.

**ADVANTAGES** As an anti-washout concrete admixture, allows concrete to be placed under water with minimized washout, while maintaining workability and placeability.

- Increase the cohesion of concrete mixes and minimizes washout and reduced pumping pressure
- Reduces washout of cement paste during placing
- Allows continued placing of concrete at low temperature
- Reduces segregation even with high fluid and high water cement ratios
- Chloride free, safe in prestressed and reinforced concrete
- Minimal to no effect on set time at optimum dosage level
- Does not affect the reinforcing bars and does not present any risk of toxicity for potable water
- Minimal to no effect on set time at optimum dosage level

## TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Single
Form	-	Powder
Appearance	-	Grey
Chloride Content	-	Nil to BS 5075
Bulk Density	BSEN 480-10	0.65 +/- 0.01 gm/cc

**COMPATIBILITY**

**With Cements :**  
**MegaAdd UW** is suitable for use with all types of cement and cementitious materials.  
**MegaAdd UW** not suitable for use with high alumina cement.

**With other Admixtures :**  
**MegaAdd UW** is compatible to use with all types of water reducing plasticisers and Poly Carboxylate based super plasticiser.

**DOSAGE** The normal dosage of **MegaAdd UW** is 0.6% by weight of cement, but it can be used at upto 1.0% though some increase in retardation must be expected. Site trials should be carried out to establish the optimum dosage for the mix to be used and method of placement.



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**EFFECT OF OVERDOSING** An overdose of double the recommended amount of **MegaAdd UW** will result in an increase in anti-washout properties, significantly increased retardation and strength reduction of the concrete.

**Cement washout :**

Typically conventional concrete can exhibit a washout of up to 30% of the fines content. Using **MegaAdd UW** in the same mix at the above recommended dosage, this can be reduced to less than 6%. Washout resistance is assessed by filling a perforated basket with the concrete mix, allowing it to drop through water five times and measuring the loss in weight of the concrete after each drop.

**Compressive Strength :**

Most underwater concrete mixtures that are proportioned in accordance with ACI 304R, "Guide for Measuring, Mixing, Transporting, and Placing Concrete", exceed compressive strengths that are required for underwater applications. If necessary, a lower water-to-cementitious materials ratio may be used to achieve the desired results.

**MIXING**

**Mix design :**

Mix proportions should be determined as for a cohesive pump mix. A Fine aggregates content of 45-55% by volume of the total aggregate weight is recommended. A normal minimum cement content for underwater placing is 360 -385 kg/m<sup>3</sup>, Water / Cement ratio : 0.45, Slump of 150 - 220 mm is generally necessary. Site/plant trials must be carried out to determine the optimum mix design and workability requirements. For achieving high slump use **MegaFlow UW** in conjunction with **MegaFlow** range of water reducing admixtures.

**Mixing :**

When concrete is produced in Batching Plant Mixer, **MegaAdd UW** must be mixed when dry with the other components of concrete before the mixing water is added. It should be added slowly and with care. Mixing should continue for a further 1-2 minutes.

**Placing :**

The concrete may be pumped, skipped or tremied into place, alternatively it may be flowed down an incline. Free fall of highly workable concrete tends to result in turbulent flow which segregates the mix and increases water:cement ratio. At high workability it is, therefore, not recommended that the concrete is allowed to free fall, even from the end of a tremie. Concrete placement should be continuous and without interruption. Keep the discharge point of the placement device immersed in the fresh concrete during placement.

**PACK SIZE** 20kg

<b>GENERAL INFORMATION</b>	<b>Shelf Life</b>	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	<b>Cleaning</b>	Clean all equipment and tools with water immediately after use.



## MegaAdd UW

### HEALTH and SAFETY

#### PPE's

Gloves, goggles and suitable mask must be worn.

#### Precautions

Contact with skin, eyes etc. must be avoided.

#### Hazard

Regarded as non-hazardous for transportation.

#### Disposal

Do not reuse containers. To be disposed off as per local rules and regulations.

#### Additional Information

Refer MSDS. (Available on request)

### TECHNICAL SERVICE

**CONMIX Technical Services** are available on request for onsite support to assist in the correct use of its products.



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