

REC PLAST UW 156

UNDER WATER CONCRETE ADMIXTURE SYSTEM

DESCRIPTION

REC PLAST UW 156 is a chloride free water soluble polymer supplied as a fine off-white powder. **REC PLAST UW 156** produces a gel in the water paste which surrounds cement particles and protects them from washout.

PRIMARY APPLICATIONS

REC PLAST UW 156 is an admixture system specially designed to allow concrete to be placed underwater. **REC PLAST UW 156** increases the cohesion of concrete mixes and minimises washout enabling concrete to be easily placed under water, and produces well compacted, high quality concrete.

FEATURES/BENEFITS

- No risk of significant washout of cement paste during placing.
- Removes need for specialist placing equipment
- Allows higher strength and reinforced concrete to be satisfactorily placed underwater.

COMPATIBILITY

Compatibility with cements: **REC PLAST UW 156** can be used with all types of Portland cements and pozzolans. For advice on special cements, consult Reckon Chemicals.

Compatibility with other admixtures: **REC PLAST UW 156** is not generally compatible with other types of admixture. It has been formulated to give good workability and the additional use of a plasticising admixture is not normally recommended. In case it is found necessary to use a plasticiser or other type of admixture, Reckon Chemicals should be contacted for advice.

TECHNICAL INFORMATION

Chloride content: BS 5075	Nil
Compacted bulk density of the powder	0.55 - 0.65
Setting times	Stiffening time of concrete using REC PLAST UW 156 is retarded by approximately 3 to 5 hours at normal dosages, depending on cement and mix characteristics.
Cement washout	Typically, ordinary concrete can exhibit a washout of up to 30% of the fines content. Using REC PLAST UW 156 in the same mix, this can be reduced to less than 5%.

DIRECTIONS FOR USE

Dosage: The normal dosage of **REC PLAST UW 156** is 0.6 to 1.5% by weight of cement, but will depend on the cement and sand content. Site trials should be carried out to establish the optimum dosage for the mix to be used.

Overdosing: An overdose of double the recommended measure of **REC PLAST UW 156** will result in an increase in the anti-washout properties, significantly increased retardation and strength loss of the concrete.

Mix design: Mix proportions should be designed as for a cohesive pump mix. A slump of at least 180mm is typical. A sand content of 40-50% of the total aggregate weight is recommended. A normal minimum cement content for underwater placing is 400 kg/m³. Site /plant trials should be carried out to determine the optimum mix design and workability requirements.

Mixing: When concrete is made using a forced action (Power paddle) mixer **REC PLAST UW 156** should be added towards the end of the mixing cycle. It should be added slowly and with care, mixing should continue for a further 1 - 2 minutes.

When concrete is truck mixed **REC PLAST UW 156** should be added to the concrete after mixing either at

the plant if near the site, or at site. **REC PLAST UW 156** should be added slowly into the truck, and mixed for 5 - 10 minutes at high speed. It is essential that truck mixers used are in good condition. Agitator trucks are not suitable. When the concrete is truck mixed it may be necessary to adjust the workability of the concrete after **REC PLAST UW 156** has been added. This may be done with a small amount of additional water or the addition of a suitable plasticiser. The concrete should be constantly agitated until the moment of placing.

Cleaning: Spillages of **REC PLAST UW 156** will gel when in contact with moisture and should therefore be removed in the dry state.

PACKAGING

REC PLAST UW 156 is available in Bags and bulks supply on demand.

STORAGE

REC PLAST UW 156 should be stored in its sealed bags, protected from moisture and off the floor. A minimum shelf life of 12 months could then be expected.

HEALTH & SAFETY

REC PLAST UW 156 has no specific health hazards; it is nontoxic but should not be ingested. Any eye contamination should be flushed with clean water and medical advice should be sought.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

