

CIS CHEM QG -138

RAPID HARDENING ADMIXTURE FOR CEMENT CONCRETE

PRODUCT CATEGORY: HARDENER ADMIXTURE

PRODUCT DESCRIPTION

CIS CHEM QG 138 is quick setting and rapid hardening admixture for plain cement concrete and mortars. Also used in pavement block CIS CHEM QG 138 underwater concrete admixture is a chloride free blend of selected polymers supplied as a fine brown powder.

When added to concrete, CIS CHEM QG 138 produces a gel in the water phase which surrounds the cement particles and other fine components of the concrete mix and protects them from excessive washout both during placement and once the concrete is finally in position. Unlike other anti-washout materials, CIS CHEM QG 138 also contains plasticising agents which counteract the effects of the increased cohesion necessary to minimise washout and allow normal workability levels to be maintained without the addition of extra water.

CIS CHEM QG 138 provides a degree of acceleration to the concrete mix, allows low journey times from batching



USES

Dosages outside the typical range suggested above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact the CIS technical team for advice in these cases.

CHARACTERISTICS / ADVANTAGES

- Increases internal cohesion of the concrete mix, reducing the tendency of cement and other particles to be washed out of the concrete mix during placement
- Facilitates the placement of concrete underwater by normal methods such as tremie pipe delivery
- Once placed, concrete is more resistant to the action of moving water
- Allows the production of higher quality and higher strength concrete underwater
- Contains workability and setting control agents to assist in providing the levels of workability and working life necessary to allow control of placing

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LIMITATIONS

CIS CHEM QG 138 will not provide protection against washout in situations where there is a large amount of water turbulence such as where concrete is poured directly into water from a ready-mix truck or where incorrect use of a tremie produces interrupted concrete flow. In such situations water is forcibly mixed with the concrete. Typical dosage the optimum dosage of CIS CHEM QG 138 to meet specific requirements must always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the concrete mix. Such trials should start at a dosage of 1 lit / 100 kg of cement. After initial trials at this dosage, further trials at

STORAGE

CIS CHEM QG 138 has a minimum shelf life of 12 months provided the product is kept in a dry store in the original, unopened packaging.

PRECAUTIONS

Health and safety for further information consult the product safety data sheet available for this product.

PRODUCT INFORMATION

Composition	Modified hybrid pce
Packaging	250 KG
Appearance / Colour	Light yellow to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °c and +45 °c. Protect from direct sunlight and frost
Density	1.22 ± 0.05 kg/l at 30 0c
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM FLOW 110 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying