

CIS CHEM AR-114

CORROSION INHIBITING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DESCRIPTION

CIS CHEM AR 114 is NON BIOPOLAR nitrite, migrating corrosion inhibiting admixture that protects rebars from corrosion induced by chloride ions as well as due to carbonation of concrete.

USES

Steel reinforced concrete in marine zones

- Piers, piles, and concrete dock structures
- RCC structures exposed to corrosive environments
- Bridges, highways, chlorinating plants, sewerage systems
- Adds corrosion inhibition properties to cementitious grouts

CHARACTERISTICS / ADVANTAGES

Simultaneous cathodic and anodic protection of steel

- High penetrating power resulting in total protection of rebars or PT tendons
- No adverse effect on properties of hardened concrete or grout
- Effective even in presence of high amount of chlorides
- Eco-friendly, nitrite and chromate free
- High alkalinity offers additional protection to steel A



CIS CHEM AR-114

CORROSION INHIBITING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	250 KG
Appearance / Colour	Light YWL
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	~1.12 GM/ML (25 °C)
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 AR 114 In concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS CHEM AR 114 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS CHEM AR 114 is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add CIS CHEM AR 114 directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds. The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.