

Durability Design of Concrete Structures in Severe Environments

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Keywords: Corrosion-resistant concrete, ultra-fine mineral powder, ordinary portland cement.

Abstract. Concrete has a high performance corrosion resistance, with the choice of the thickness of the active alkali aggregate, grain shape structured, well-graded, small porosity. Superfine cement with mineral powder instead of 30% to 50%, mineral superfine powder participate hydration, solve concrete interface structure $\text{Ca}(\text{OH})_2$ enrichment and directional crystallization problems, improve the coagulation. The internal structure of the soil, improving the strength and density of concrete. Meanwhile ultra-fine powder mixed with minerals, reducing the C_3A content in the powder and the concrete in the late ettringite hazards greatly. Improve the corrosion resistance of concrete, with also improve the internal structure of concrete and the strength of concrete, compactness and corrosion resistance. Composite type superplasticizer, reducing water consumption unilateral concrete, air-entraining agent is added to improve the density of concrete, the concrete has good impermeability and frost resistance. On the use of ordinary portland cement, it gets high performance, by the ratio test, developed the corrosion and frost resistance of concrete for the chloride, sulfate alone or jointly under the action of the environment concrete structures in corrosive environments, such as coastal areas, inland lakes, underground sewage or chemical zones, there are concrete structure durability requirements, with good economic and promotional value.

Introduction

Engineering coastal areas, concrete in saline environments, by the chloride ion, corrosion and freezing and thawing sulfate ions, the role of chloride ions will intensify the process of carbonation of concrete reinforcement corrosion so, the role will generate calcium sulphate in concrete ettringite, so that the concrete strength is lowered, gradually collapse; the water in the concrete at a low freezing temperature will make cracking the concrete spalling, gradually lose carrying capacity, durability severely affected structures. Owing to the lack of understanding of the durability of concrete, did not take the necessary precautions and the use of corrosion-resistant concrete, so there is a considerable number of projects after completion, soon appeared along the ribs cracked concrete structures, steel corrosion, protective layer off, reducing the structure of life, causing serious consequences need of major repairs or demolition and reconstruction (Fig1) .



Fig.1 Oil Storage Vision

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