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A Brief Analysis of Postprint on Treatment Measures for Concrete Cracks in Subway Stations

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Abstract

In the construction of urban rail transit, cracks in concrete structures are inevitable. The proper management of concrete structure cracking issues determines whether these structures meet serviceability and durability requirements. Drawing upon the ongoing metro station project of Fuzhou Urban Rail Transit Line 4, this paper systematically documents and classifies concrete cracks occurring during construction, measures their depths and widths, and implements targeted remediation measures according to crack type. Through analysis and summarization of these concrete structure crack treatment measures, the study provides guidance for subsequent construction activities and accumulates valuable experience for future crack remediation in metro station concrete structures.

Full Text

A Preliminary Analysis of Treatment Measures for Concrete Cracks in Metro Stations

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Abstract

During urban rail transit construction, cracks in concrete structures are inevitable. Proper management of these cracks is critical to ensuring that concrete structures meet both serviceability and durability requirements. Drawing upon the ongoing metro station project for Fuzhou Urban Rail Transit Line 4, this paper systematically categorizes and statistically analyzes concrete cracks observed during construction, measures their depth and width, and applies targeted treatment measures according to crack type. Through analysis and summarization

of these treatment approaches, the study provides guidance for subsequent construction and accumulates valuable experience for future crack treatment in metro station concrete structures.

Keywords: concrete cracks, surface cracks, deep cracks, through cracks, treatment measures

Note: Figure translations are in progress. See original paper for figures.

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