



PENDING

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Apparatus and method of determining in concrete sample weight loss due to water bleeding



NEED

In the construction industry, managing water bleeding in fresh concrete is essential to ensure structural integrity. Water bleeding impacts strength and durability, leading to potential long-term damage. A solution is needed to accurately measure this phenomenon.

TECHNOLOGY OVERVIEW

This invention introduces an apparatus for measuring water bleeding in fresh concrete. By determining weight loss over time, the device provides precise data on the bleeding rate, helping to optimize concrete mix designs and enhance construction quality.

TECHNOLOGY KEY FEATURES

The apparatus measures water bleeding in concrete through a specimen chamber, hinge mechanism, and weight measuring system. It uses a collector unit for bleed water and provides accurate, repeatable results.

[Read more here](#)

MARKET ANALYSIS

The global construction materials market is expected to grow at a CAGR of 5.3%, with a projected value of \$1.5 trillion by 2033. Drivers include increasing infrastructure investments and demand for durable materials.

Target Industries

Construction, Building Materials, Civil Engineering, Concrete manufacturers, construction companies optimizing concrete mix designs, and infrastructure developers focused on durability and material performance.

AT A GLANCE

- SDG 9 (Industry, Innovation, and Infrastructure), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production)

Technology is available for licensing/ co-development.

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