

Committee Report: JCI-TC-153A

Technical Committee on Improvement of Durability of Concrete Structure by Control of Bleeding Behavior

委員会報告：JCI- TC153A
構造物の耐久性向上のためのブリーディング制御に関する研究委員会

Shigeyuki SOGO: Hiroshima Institute of Technology

十河 茂幸：広島工業大学

Yoshitaka KATO: Tokyo University of Science

加藤 佳孝：東京理科大学

Kazuto FUKUDOME: National Institute of Technology, Ishikawa College

福留 和人：石川工業高等専門学校

Hiroshi JINNAI: Taisei Corporation

陣内 浩：大成建設

Yoshihisa NAKATA: Nihon University

中田 善久：日本大学

Takeshi IYODA: Shibaura Institute of Technology

伊代田 岳史：芝浦工業大学

Toshitsugu INUKAI: National Institute of Technology, Gifu College

犬飼 利嗣：岐阜工業高等専門学校

Kuniaki SAKURAI: Obayashi Corporation

桜井 邦昭：大林組

Shuzo OTSUKA: Institute of Technologists

大塚 秀三：ものづくり大学

Contact: jci-web@jci-net.or.jp

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Abstract

The decline in performance in structures due to bleeding is being pointed out in recent years. This is thought to be because when excessive bleeding occurs, there is an adverse effect on the structure's mechanical performance as well as its durability, and if too few, it is difficult to apply the screeded finish. However, since the effect of bleeding on the properties of concrete is not quantitatively understood, and with no universal testing method, the current status is that it's not being adequately controlled. Against this backdrop, the goal of the committee's activities was to secure the performance of concrete structures through appropriate bleeding control. This report summarizes the results of this committee's activities.

1. Introduction

Bleeding has become a frequent cause of defects in concrete structures in recent years. This is considered to be due to insufficient bleeding control, which is one of the concrete material segregations. Although the bleeding evaluation method is defined in JIS A 1123, due to the difficulties in measurement work, and since

it is not often performed in actual practice, the actual situation is that it is not handled in accordance with the specification item of JIS A 5308 "Ready Mixed Concrete." Against this backdrop, the Japan Concrete Engineers Association founded the two-year "Technical Committee on Improvement of Durability of.....