

## **6. Study on the Estimation of Exfoliation of an Existing Tile Finish**

Takanori Okihashi, Masanori Kono

The soundness of tile finishes of existing buildings are generally evaluated by investigating the exfoliated area or checking bond strength. New exfoliations may sometimes occur in the area that is found sound in investigations. In this study, a method was developed to evaluate the tile exfoliation risk in non-exfoliated areas. In order to verify the validity of the method, tile finishes of an actual building were evaluated in accordance with the proposed method. The results of evaluation were found to reflect the exfoliation that actually occurred.

**Key words:** tiles, existing construction, shrinkage, strain, exfoliation, risk assessment