

タイル直張り仕上げ外壁に対する透明樹脂系仕上塗料を用いた 外壁複合改修工法の試験方法の検討

Examination of Test Method for Exterior Wall Composite Repair Method Using a Transparent Resin-Based Finish Paint for the Tile-Directed Finish Exterior Wall

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Abstract

The following results were obtained from a study of a test method for composite repair of exterior walls using a transparent resin-based finishing paint on directly tiled finished exterior walls.

(1) The pull-out strength of anchor pins against tiled surfaces decreased as the pull-out area increased, but the degree of decrease in strength was smaller with the application of the finish coating than without.

(2) Even if the tiles were cracked or the anchor pins were pulled out in the direction of the anchor pin head, the finish coating and the tile surface remained integrated.

(3) Out-of-plane strength test of the retrofitted layer on an exterior wall directly covered with tiles showed that the pressure did not decrease even if the tile cracked at the anchor pin insertion point or the anchor pin was pulled out.

(4) The pullout strength of anchor pins with a pullout area of 200 mm in diameter was the same as the load at which cracks in the anchor pins and the head of anchor pins occurred in the out-of-plane strength test of the retrofitted layer on an exterior wall with 45 two-tile finish.

キーワード：タイル直張り、外壁複合改修工法、透明樹脂系仕上塗料、はく落防止、アンカーピン

Keywords : Finished Tile, Exterior Wall Composite Repair Method, Transparent Resin-based Finish Paint, Prevention of Peeling, Anchor Pin

1. はじめに

外壁の剥落防止工法である外壁複合改修工法は、モルタル塗り仕上げ外壁やタイル張り仕上げ外壁等の改修に用いられる工法で、上市から

約30年の歴史があり、現在では様々な仕様の工法が開発されている。当該工法はピンネット工法とも呼ばれ、既存外壁仕上げ層を存置したまま、アンカーピンと繊維ネットを複合して用いることにより、アンカーピンによる仕上げ層