A Study of Infrared Coating Thickness Measurement Method when Repainting of Coated Steel Bridge

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Repainting of coated steel bridges is performed manually, and construction management is required to prevent variations in film thickness. However, the coating thickness measurement equipment used on site measures film thickness locally, which makes it difficult to measure a large number of points over a wide area. The purpose of this paper is to determine the applicability of a film thickness measurement method using an infrared camera. To this end, we report the results of the evaluation of the optical properties of coatings applied to steel plates with various surface profiles and the results of a study on the material composition of coatings suitable for this film thickness measurement.