

FLUORESENT CONSTRUCTION MATERIALS AND APPLICATION FOR BUDDHIST OBJECT: TREND FROM THAILAND

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ABSTRACT

Development of new materials to support the usage is an interesting issue in chemical and material engineering at present. The fluorescent material that can react to light becomes the new trend that is used in modern construction. Here, the authors present and discuss on the cases of using fluorescent construction materials for application in Buddhist object construction in Thailand.

KEYWORDS: Fluorescents, Construction, Buddhist.

INTRODUCTION

Development of new materials to support the usage is an interesting issue in chemical and material engineering at present. The fluorescent material that can react to light becomes the new trend that is used in modern construction. Here, the authors present and discuss on the cases of using fluorescent construction materials for application in Buddhist object construction in Thailand.

CASES STUDY ON APPLICATIONS

BUDDHIST TEMPLE CONSTRUCTION

The first Buddhist temple in Thailand that makes use of fluorescent chemical material for highlighting the structure is Wat PhruPrao, Ubonratchathani province. The chemicals are

used for main drawing and the ubosot of the temple becomes brightening at night (Figure 1).

BUADDHA IMAGE CONSTRUCTION

The famous Buddha image at the place named PrathatDoiWanghua in Lampong province was newly constructed making use of fluorescent materials. When there is no external light, the image becomes brightening.

BUDDHIST AMULET CONSTRUCTION

The use of fluorescent chemical to waxing the Buddhist amulet, small jade Buddha image was done by many Buddhist monasteries. The amulet becomes very popular among the local Thai people.

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(a).Wat PhruPrao



(b).PrathatDoiWanghua



(c).Fluorescent Buddha image amulet

Figure 1.Using fluorescent materials for construction of Buddhist objects

DISCUSSION

Fluorescent dye chemical is the widely use color chemical technology [1]. The well-known application is usually in small scale such as medical examination of cells [2]. However, the present report mentions for the construction of a large things. The new fluorescent construction materials make use of the basic fluorescent dye composition that has basic property on reacting to light. It can be useful in the dark night and can help highlight the structures. The use of fluorescent construction in the present day becomes interesting new trend and need good design. In fact, in the ancient construction, the local Indochina already mentioned for the phenomenon namely "Chuppannarungsri", which mean the brightening of the Buddhist structure at night. This phenomenon is believed to due to the

use of phosphorus in the construction of the structure. At present, there are some new constructions that make use of fluorescent materials. The application for construction of Buddhist objects is interesting. The belief of holiness plus the use of new chemical technology successful promote aim of highlighting the structure by new materials.

CONFLICT OF INTEREST: None

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