

Research on Application Prospect of New Green Construction Technology in Building Decoration Engineering

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Abstract: In recent years, the rapid development of the economy has driven the rapid development of many industries in China. The developed economy has brought more opportunities and challenges to the building decoration industry. As environmental protection issues have gradually received people's attention, people have begun to pay attention to The energy conservation and environmental protection of materials during the decoration construction process has gradually become one of the standards for people to evaluate the quality of building decoration. Low-carbon gradually enters people's field of vision, and various low-carbon decorative materials are also favored by more and more people. It has the characteristics of energy saving, environmental protection and low consumption, which has promoted the rapid development of energy-saving green decorative materials in China. [1].

1. Introduction

After a building has been built, people need to do a good job in building decoration before actually going to the house. The decoration construction is an indispensable part of the building after the building is completed. The good decoration of the building will make the overall appearance of the building more beautiful, and the people who live in it will feel very happy because of this situation. Therefore, in order to provide people with a better sense of the sense of the building, it is necessary to continuously pay more attention to the quality of the building decoration construction, and at the same time apply some new techniques and new technologies in the construction of the entire building decoration project. [2]

2. Characteristics of green construction technology for architectural decoration engineering

2.1 Comprehensive

The comprehensive nature of this feature does not only refer to the green construction in the architectural decoration project, but also covers the requirements of the overall construction design, tool preparation and completion. According to the regulations of China's environmental protection indicators, there should be no noise, dust, environmental pollution and waste of resources in the construction process of building decoration projects. It is necessary to thoroughly implement the concept of green construction.

2.2 Integrity

The integrity is the requirement for the basic knowledge and quality of green construction of all construction workers in the building decoration project, and each construction personnel must have a sense of responsibility for environmental protection. In other words, the technical personnel, construction workers and engineering construction personnel involved in the construction must have a good environmental awareness and understand the concept of green construction.

2.3 Information integrity

Information integration refers to the materials and tools used in the construction process of building decoration engineering. The indicators must be measured in strict accordance with the green construction standards, and feedback should be made in time to improve the construction of construction and construction personnel to achieve green construction. The standard makes accurate judgments to ensure the overall environmental protection and health of the project. [3]

3. Application points of new green construction technology for building decoration engineering

3.1 Reasonable application of BIM technology

The application of BIM technology can greatly improve the construction quality and progress of green buildings and effectively deal with construction risk factors. For example, if the BIM is applied positively, the constructor can intervene in the design phase in advance. The construction party can make early predictions on the feasibility of the design plan and the resettlement plan of the complex equipment, so as to avoid the rework or the construction stagnation caused by improper operation to the greatest extent. In addition, BIM technology can accurately calculate construction costs, accurately calculate the amount of green materials used, and concentrate on purchasing, reducing the cost risk of rising green material prices due to exchange rate fluctuations. Establishing the visualization effect is beneficial to the construction party to formulate the construction organization design plan in advance and improve the construction efficiency. For example, during operation, the failure of more professional green equipment such as insulation, solar equipment, and ground source heat pump systems requires multiple parties to coordinate. The presentation of BIM visualization results, real-time monitoring of equipment status during operation, accurate positioning of equipment damage points, and instant maintenance. The establishment of the BIM information platform can effectively link multiple participants to the main body, reduce the communication cost, and ensure the smooth flow of information during the operation.

3.2 Specific requirements for decoration construction

For the requirements embodied in the decoration construction of the building, it is mainly reflected in the two aspects of expressiveness, construction period target and construction progress. (1) Enhance the artistic expression of architectural decoration. For this requirement, it is mainly because there is a huge difference between the process of building and the decoration of the building. At the same time, the beauty of the building is also caused by the decoration of the building, so the beauty of the building is needed for this. In the artistic design of the building and the environmental atmosphere of the building, the importance of this aspect is constantly increased, and the actual space of the building is more clearly planned. (2) The expected construction target and construction progress quality are consistent. For technical management personnel, not only must there be a clearer and clearer understanding of the specific work process, but also a reasonable grasp of the integrity of the entire project, especially in the actual construction, professional and technical personnel It is necessary to present the design goals in the form of a chart, and to carry out a deeper understanding and understanding of the presented charts, so that the overall construction quality of the decoration construction can be effectively guaranteed.

3.3 New technology, new technology, more use in architectural decoration

For the architectural decoration project, it is necessary to do relevant preparatory work during the actual construction, for example, to conduct real-time survey on the construction site before construction to form a better design. In particular, when analyzing the construction drawings, the analysis of the drawings should be changed according to the changes in the specific situation, so as to continuously meet the actual needs in the project. Therefore, both the construction workers and the relevant technical personnel need to master a lot of professional knowledge and constantly improve their own abilities and qualities. Only in this way can they be put into actual construction. Can be fully played out. In the current stage of decoration construction, the application of new materials and

new technologies has become more and more, so in the practice, it is necessary to constantly understand and master such new materials and technologies before they can. The development and progress of technology are constantly advancing, and at the same time, such new processes can be better applied and improved in actual engineering operations. Especially in the construction of decorative engineering, the study of relevant theoretical knowledge is also very important. If you want to use this knowledge reasonably and effectively, in the actual building decoration project, the relevant personnel must be right. The study of theoretical knowledge is constantly strengthening. [4]

3.4 Application of roof green construction technology

In the construction process of building decoration engineering, it is necessary to fully consider the influencing factors faced by the engineering structure. Under the guidance of the green environmental protection construction concept, it is necessary to fully apply the green construction technology to promote the green energy-saving development of the housing construction project. As an important part of the construction of the housing construction, the roof is directly exposed to the external environment. The roof is at the top of the housing construction project and is exposed to wind, rain and sun for a long time. According to the analysis of traditional housing construction projects, the problem of roof seepage and water leakage is more common, mainly due to the insufficient waterproofing of roofing materials, which affects the normal life of residents. In the application of roof green construction technology, more emphasis is placed on the use of green materials, such as waterproof materials and other auxiliary materials to enhance the waterproof effect of the roof and prevent rainwater from penetrating into the internal structure of the house. Currently, more cyanide is used. Acid-based prepolymers, catalysts, anhydrous auxiliaries, solvents, etc., can be processed to obtain polyurethane waterproof coatings. This material not only has high water repellency, but also has strong corrosion resistance and effective application. In the construction of the housing construction, the water resistance of the roof can be improved, and the service life of the material is relatively long. While improving the overall quality of the roof, the overall service life of the building can be extended.

3.5 Green design of indoor lighting

In fact, the choice of lighting and lighting is also a very important part of the green design in the interior decoration and decoration application, but the traditional architectural interior decoration design obviously does not pay enough attention to this, and is also limited to the lighting function of the lamp. There are many new types of lamps on the market that greatly reduce the emission of harmful substances, which are healthy and environmentally friendly. As a designer, it is very important to keep up with the trend of the times. For the new types of lamps that have appeared in the market, you should choose lamps that cater to the green design concept, and consider the organic combination of energy-saving lamps and natural light, such as the most common LED lights, energy-saving and healthy, are in line with current green design requirements. In addition, the choice of lighting is also extremely important, and the visual experience of the occupants at night is largely from the light. Therefore, when choosing energy-saving lamps, pay attention to the appearance of the appearance and the color and brightness of the lights. According to different decoration styles, it is also an art to choose the warm and cold color of the lamps.

4. Plication prospects of new green construction technology for building decoration engineering

4.1 Strengthen the control of noise pollution

Reasonable construction tool selection during construction and construction of the building decoration project will greatly help the noise control. A method of hiring a highly qualified construction team can be employed, as it has sufficient mechanical equipment to operate according to different requirements to avoid unnecessary noise. Larger mechanical motors emit more noise, so under the premise of achieving construction results, mechanical equipment with a small volume

should be selected as much as possible for construction. And the power of the mechanical equipment is properly adjusted to keep the noise within a minimum range. For example, in the process of piling, use air hammer instead of pile driver; use welding technology as much as possible, and use less riveting technology. Not only that, but also the quality of the construction staff also determines the degree of noise generation. For example, in order to reduce the workload, construction workers with lower quality often throw steel pipes directly, which will generate a lot of unnecessary noise. [5-6]

4.2 Control the dust generated by construction

A large amount of dust is usually generated during the construction of the building renovation project. Therefore, in order to achieve green construction, the dust treatment should be strengthened to minimize the impact of construction dust on the environment. The first is the control of the dust generated by the removal of the wall. During the process of wall removal, a large amount of dust will be generated, which will disperse with the air, which not only affects the environment, but also harms the health of the construction workers. Therefore, the wall removal should be controlled as much as possible, the demolition plan should be planned in advance, and the generation of dust should be reduced by sprinkling water before dismantling. Secondly, it is also reasonable to control the dust generated in the room. During the construction of the building decoration, a large amount of dust is generated during the treatment of the building base layer, and dust is generated by the wall grinding work. The dust will have a certain degree of influence on the outdoor environment through circulation, and the dust can be evacuated for such dust. To control and reduce.

4.3 Recycling and utilization of demolition

In the specific implementation process of the decoration project, in order to ensure the efficiency and quality of the demolition, in order to ensure the efficiency and quality of the demolition, the method of demolition by the name of the protection, that is, the panel, keel, etc. after the removal, is usually selected. Can be recycled and reused. In the specific operation process, it should be combined with the actual situation, especially the combination of the use of materials on the construction site, so that it can be directly divided into direct use and downgrade use in practice. Therefore, if the decorative materials have the characteristics of being recyclable, then after disassembly, the materials should be classified according to the categories, and at the same time, they should be classified and treated, and the inspection work of the materials can be implemented. To ensure the accuracy and validity of data records. For example, after disassembling the aluminum alloy, for some components that are not very damaged or other parts, the surface of these parts can be reprocessed before use. At the same time, it is also possible to carry out the corresponding finished product protection of these parts before use, which can improve the recovery rate and utilization of these demolition materials.

4.4 Control the waste generated by construction

Solid waste is a common contaminant in building decoration construction, so the control of solid contaminants is also very important. After the completion of the construction, the solid waste generated by the decoration project can be classified, and the toxic substances and the unrecoverable substances can be placed in a centralized manner, treated by a professional treatment method, and the recyclable materials can be collectively recovered.

5. Conclusion

In summary, green construction is an important trend in the development of future architectural decoration projects. This paper combines the problems existing in traditional architectural decoration and the characteristics of green construction technology, and analyzes the significance and application of green construction technology in detail, through strengthening the control of noise pollution, strengthening the use of environmentally friendly materials and controlling the dust and waste generated by construction. Discussion and research, I hope to have a certain significance for the maintenance of the urban environment and the protection of people's living environment.

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