

Application of New Architectural Decoration Materials in Interior Environment Design

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Abstract: The design emphasis of indoor environment usually lies in the unity of aesthetics and practicability, and the scientific selection of architectural decoration materials is the basis to create a superior indoor environment. In recent years, with the addition of new technology, new materials and design concept has been constantly updated, in the interior environment design reasonable collocation, choose decorative materials, make the best use of material, become an important factor to ensure the quality of interior decoration. Therefore, this paper studies the application of several new architectural decoration materials in indoor environment.

1. Overview of New Decorative Materials

In recent years, urban and rural construction industry is gradually expanding in scale, facing the new situation and the situation of various design technology related to architectural design has also achieved a certain degree of improvement and optimization. In the process of specific architectural decoration design, the new material has its unique advantages of environmental protection, which is more suitable for the current field of architectural decoration. Compared with the traditional materials, the new building decoration materials have the advantages and characteristics of energy saving and environmental protection, and also help the whole building decoration project to save consumption cost. More designers have gradually embraced and embraced today's new materials as technology has evolved, and have begun to try to apply them to interior design. Therefore, the designers should make clear the development advantages and basic characteristics of the new materials, and choose the decorative materials that meet the design requirements based on the actual design situation. Nowadays, the new decorative materials used in the field of architectural decoration in China mainly include environmental protection materials, artificial crystal and glass materials. To improve and optimize architectural decoration design, the most important thing is to do a good job of material screening, choose new decorative materials as support, save cost and improve efficiency. And the new materials also have the advantages of technology diversification and the characteristics of green environmental protection, in line with the basic requirements of environmental protection and energy-saving architectural design. In addition, designers need to choose appropriate new decorative materials according to local conditions to optimize the design results [1].



Figure 1 Architectural decoration

Comparing the traditional decorative materials with the new materials, it can be found that the new materials have the characteristics of green and environmental protection. The performance of the new material is more durable, and its performance will not be reduced after a long time. In recent years, in the current stage of architectural decoration more applied to 3R new materials, this type of materials have the characteristics of repeatable, recyclable, renewable, and will not bring harm to the human body, very consistent with the harmless building purpose. And this type of material also has the green environment, close to the natural characteristics of the times, the rational use of such materials to design a healthier and more comfortable new indoor environment, which is very consistent with the basic needs of urban and rural people nowadays. With the development of economy and technology, the construction industry is expanding its coverage in urban and rural areas. In the new situation, more residents will choose new decorative materials which are more environmentally friendly, and architects and manufacturers will be more inclined to use green materials to some extent. Under the influence of today's green environmental design concept and design objectives, the new materials without pollution, pollution and radiation will be more favored by the majority of owners, continue to promote, and will gradually build up the people's livelihood project. Therefore, in the design of indoor environment, it is necessary to actively apply and popularize the characteristics of green environmental protection of new materials on the basis of conforming to the design purpose of the new period.



Figure 2 Interior design

2. Types of New Materials

In recent years, many new materials have achieved good results in the field of architectural decoration, among which the most typical new types of materials are as follows: first, synthetic ecological wood. This new type of material contains resin, wood fiber, polymer material and other specific components, so this type of material has a better visual effect, the overall performance of the stable material structure and heavy wood sense. Compared with the traditional building wood, this new type of wood has better waterproof, heat insulation, anticorrosion, heat insulation and other comprehensive properties, at the same time, it also has the key performance of fire protection [2]. In the concrete construction, the buckle type steel keel can be arranged inside the ecological wood. In recent years, many commercial buildings, recreational places and landscape design in the interior environment will be inclined to choose eco-wood. Second, when decorating the wall will choose art paint. Many designers in the design of interior wall materials will use art paint to decorate the entire wall, which is very conducive to the indoor environmental style fully displayed, and in line with the environmental protection, green design purpose. Art paint from Europe, with good dustproof and waterproof performance, not only will not cause harm to the human body, due to its various texture features, to a certain extent, but also conducive to increase the texture of the wall and luster, eliminate wall radiation. It can be seen that the defects of the poor gloss in the wall design in the past can be effectively compensated and perfected by the new architectural decoration materials. There are two types of art paint, real stone paint and diatom mud, which are used in interior environment design.[3]. Third, GRG new type materials. New GRG materials are used in interior design and typically represent a gypsum board made of fiberglass. Compared with this new type of decorative material, traditional plasterboard lacks some comprehensive performance, and adding

proper amount of glass fiber to make plasterboard will improve its comprehensive performance and prevent its breakage and cracking caused by improper use or time factor. This type of plasterboard has a smooth and delicate appearance, can quickly bond with other coatings to each other, has a good decorative effect. At the same time, this type of plasterboard does not contain substances that poison the human body, complying with green and safety indicators. Looking at the present situation of indoor environmental design in recent years, it can be found that many schools, theaters and shopping malls have tried to use such new decorative materials, which will gradually replace the traditional gypsum.



Figure 3 Interior design

3. Application in New Architectural Decorative Materials in Interior Environment Design

3.1 Glass and Artificial Crystal

Although crystal has been a kind of luxury goods for a long time, but with the steady improvement of the national economy, people began to pursue the quality of life, in order to make the indoor environment become more luxurious, designers usually use crystal in environmental design, coupled with artificial crystal can effectively save costs, has been favored by many customer groups, for interior design has a very important role. In addition, because the crystal material and glass material have certain similarity in many aspects, it is often widely used in interior design, and the new glass material and artificial crystal, compared with the traditional material, add the function of adjusting temperature, increasing lighting, reducing noise, and the glass material has the characteristics of easy grinding, which can be polished according to the customer's preference and the actual space decoration needs. In recent years, many indoor chandeliers have been made of glass and crystal, which can not only meet the needs of color, but also make the indoor environment beautiful [4].

3.2 Application of Natural Rubber Floor Environment Design

The floor design is one of the key links in the interior design. When designing the floor, a new type of floor made of natural rubber will effectively eliminate the pollution caused by the flooring material to the indoor environment and effectively curb the possibility of the occupants being poisoned by the building material. Natural rubber is a new kind of compound material in recent years, which has the basic characteristics of polymer synthesis, non-toxic and harmless, and has been widely used in interior floor design in recent years. In addition, the new natural rubber is renewable, can achieve recycling, very environmentally friendly. The application of natural rubber floor in environmental design can effectively absorb carbon dioxide, and then achieve the function of purifying air, plus its color diversity, soft material, has the function of anti-slip and dust removal, in the field of interior decoration design is widely loved by customers [5].

3.3 Application of Interactive Floor Brick

Interior floor decoration materials can be selected not only natural rubber flooring but also interactive flooring brick. Compared with the traditional floor tile, the interactive floor tile can reflect the designer's unique design style, that is, the long-term interactive floor tile can retain the imprint can footprint, which is due to the phenomenon of liquid dislocation, so it is necessary to have advanced decoration technology to apply this new type of floor tile technology. By analyzing

the current situation, it can be found that interactive floor tiles are not widely used in the current architectural decoration market, which is due to the relatively high price. Therefore, if the cost of this new type of floor tiles can be reduced in the future, the preference of interactive floor tiles in the decoration of luxury buildings will help to reflect better technical results [6].

3.4 Application of Honeycomb Plate

Honeycomb panels have many advantages, such as shockproof, heat insulation, stability, light and so on. It is a new type of decorative material developed by developed countries. The application of these materials can not only protect the environment, but also have the advantage of low cost. In recent years, it has been widely used in interior decoration engineering. Because of its green harmless characteristics, it saves unnecessary environmental protection time and procedure in the decoration link. In addition, the new honeycomb panel material selection area is more extensive and diverse, aluminum plate, natural marble, solid wood can be made into honeycomb board, plus its excellent insulation performance and light material, widely favored by designers.

4. Conclusion

In a word, compared with the traditional decorative materials, the new materials occupy the absolute advantage in both the development space and the performance, the most remarkable is its green environmental protection performance, environmental protection will always become the concept and responsibility of human beings. Therefore, in the new era of interior environment design, the application of new materials can give priority to environmental protection and pollution-free, on the basis of which more adjustments and optimizations are made to give full play to the advantages of new materials.

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