

Application and research of soft polymer material decoration in interior architecture

Jianwei Ban¹, Lin LI²

¹Environmental Art Design, Hebei Institute of Fine Arts, XinLe, ShiJiaZhuang, 050700, China.

¹Environmental Art Design, Hebei Institute of Fine Arts, XinLe, ShiJiaZhuang, 050700, China

Xiaodong123@163.com

Keywords: Polymer material ,Living environment, Interior space

Abstract. The establishment of the human living environment is the soul of interior space environment design, under the background of material worship and mechanical fever, increasingly ecological destruction, population crisis, threat of energy consumption, etc, people call for modern "ecological environment" or "cultural space", put forward the modern indoor environment light "decoration" heavy "adornment" theory and was and implemented. Become a prominent feature of modern space environment development. In order to meet the needs of people's life and the social activities, the interior design reasonable organized and shaped the comfortable environment, belongs to a category of environment art. Modern design ideas tend to perform self personality, pursuit the simple and comfortable indoor style. The In the current social environment, the concept of interior decoration gradually pay more attention to the "people-oriented", Integrate the green ecological design, sustainable development design, simple design, the nationalization design, personalized design together. The concept can be roughly divided into two parts, one is to use a function to design the interior space, such as science of lighting, ventilation, etc., in order to improve the practicality and comfort feeling; Another is model individualistic space environment, emphasize personalized style and unique aesthetic .and we mainly study the content of the later.

Introduction

Soft adornment is relative to the hard structure of the building space itself, it refers to the use of decorations which can be mobile, replace, to go on the second design after "hard decorate". such as furniture, curtain, sofa cover, cushion, hanging, carpet, bedding and other fabric, fixed or mobile lighting, craft ornaments, the situation in potted plants, antique collectibles, folk art, etc., By doing this not only beautify the interior space, but add more artistic value. As opposed to "hard decorate", it refers to the decoration fixed in the building internal or surface, in order to meet the needs of the space structure or function, often can not mobility.

Section One: Advantages and application of modern interior soft decoration design

In recent years, the raise concept of interior decoration design about people-oriented, green environmental protection, and the concept of "light is repaired, heavy adornment", is because the public recognize the advantages of soft adornment design. And it' s indispensable. The type, texture, color, is rich, more easy to implement. The development of modern interior decoration design promote the development of the soft adornment design, expand the application of soft adornment design in the space.

The advantages of soft adornment in interior decoration design application Its advantage firstly embodies in the decorative materials, the green ecological design and sustainable design require decoration materials must be safe and environmental protection, in line with the sustainable development view, the qualified soft adornment material will not cause the pollution of indoor environment and won't do harm of natural. Most important, the material can realize the natural degradation after be abandoned. Soft adornment material get the characteristics of convenient and feasible, flexible construction, well maintenance, easy replacement, also have more elements to

increase value of art, in conformity with the concept of contracted design. Personalized design require master the creativity , imagination, aesthetic idea and adornment material properties, through design creation show a personalized soft adornment atmosphere, to achieve the ideal effect of illuminative of interior space. And the selection itself is a kind of embodiment of personalization. Nationalization design is the integration concentrated reflection of collision by traditional culture and modern culture. Combine including more ethnic characteristics of model, color to create new show. Soft adornment material is feasible to realize the combination of design concept.

To sum up, soft adornment has incomparable advantages in reality the adornment of the interior space design. The rich species , diversity form, and the artistic can easily realize personality atmosphere compared with the “hard decorate”. Easier to realize, lower the cost ,better design effect, fully embodies the green ecology and the design concept of development sustainable, Based on the above consideration, prompted in modern people prefer to achieve the requirement pass along with the interior decoration design and display, the improvement of the degree of concern in expanding domestic demand at the same time, lead to the development of the whole of the soft decoration industry

The application type used in soft decoration. Soft adornment design and application is still in the exploration stage t in our country, in recent years its application in modern interior space had certain development, this chapter mainly explain the application type from the use function. One type give priority on practical, such as lamps and lanterns of all kinds of furniture fabric, etc., those adornment used for the purpose of practical life. This adornment can provide utility function beside can make people pleasure. Another soft adornment is given priority to decorate, such as craft ornaments Antique collectibles, folk art ,ornamental plants potted ,plants. Those items didn't have a lot of practical value, in essence is a decorative adorn. but most of the decorations of itself has a certain artistic interest, or contains special commemorative nature, or has a deep spiritual significance. The application of such things should according to their own culture and art and aesthetic taste, combination, can achieve good adornment effect.

The concept of the application of soft decoration. In recent years, the concept of "light decorate, heavy adornment" promotion of soft adornment heat, and lack of theoretical guidance in the development of soft adornment in China. Plus some blindly and mental pursuit of fashion, and many consumers exist knowledge defects about selection and collocation of soft adornment, make the materials market become more chaotic which is yet to be perfect. for consumers, how to choice and apply about soft decoration materials become a subject to solve and research.

One is to express their ideas, don't blindly follow the designer's standard. Soft adornment art has strong subjectivity, as consumers ,they should deal with some of the understanding, listen to the designer's Suggestions and comments, express their own ideas, the consumer , at some time also has the possibility for resource waste. Two is suitable for the principle of moderate. Not one-sided emphasis on factors about the use function of soft decoration, decorative function, price, class and so on. Don't extremely pursuit one factor, with the principle of suitable to balance of these factors, and appropriate choice soft adornment which has good use function as well as the pleasant design aesthetic feeling. Three is make comparative shopping. The soft decoration products in our market price is generally too expensive, such as "b&q", "IKEA", the prices usually from hundreds to thousands tens of thousands . which weaken the desire of consumers, influencing the circulation of soft decoration materials in market. Then resulting a series of problems, some shop vicious competition to each other, shoddy, harm the interests of consumers, more obstacles growth of the soft adornment market. In this case, the handicraft lovers and demanders have brought a manual creative soft adornment of agitation, low carbon environmental protection, economical.

Section Two: The polymer material and technology of soft adornment

The features and beauty of decoration largely depends on the nature of the decorative materials and artistic form.. Polymer, as one of the soft material ,It has unique artistic features because of its special form. To some certain extent, increased the soft adornment art characteristics. The character of polymer clay material is mainly manifested in the shape of the material, color, texture, texture,

and so on. Soft ceramic decoration art is based on this through the imagination of the creator and creation concept of creation, is to realize the space environment decoration of a kind of art form. This article will analysis features from shape beauty, color beauty and skin texture beauty, study the application of soft clay in interior space decoration and function.

characteristics about polymer material and process: Polymer Clay, not the traditional Clay in our china. it is a synthetic Polymer Clay at low temperature, also known as "pottery", also called "barbecue Clay". is a kind of Clay can be shaped and formed .Which has a lot of English name, be famous as called modeling clay,oven - bakeclay, polymer clay, etc., when translated, means sculpture soil, polymer, etc. On the basic definition, it is a kind of soil, a soil can be formed; A soil which can turn variety color after bake; can shape patterns of the tens of thousands model and new craft materials. Polymer clay originating in Germany in the 1930s, and polymer technology is spread out at the end of the 20th century by the United States and Europe to all over the world.

Polymer material is a new kind of technology, have the characteristics of easy to save ,without excitant odor, abounded color, insulation, harmless, easy to carve, plastic, carving, glue and easy performance .The processing methods commonly use bake and heat lamps. As a kind of artificial low temperature polymer clay, has it has own unique properties. The first is security. Healthy and environmental protection is the first standard for material selection. Polymer clay material add some non radioactive auxiliary materials, such as nontoxic dye, softener and the synthesis of organic solvent, etc, as long as it is qualified polymer clay, is nontoxic and harmless to the human body, without excitant safety material, can be at ease use.

The third color richness. Intuitive feelings on the soft clay color can be associated with the colors of the silly putty, now there are dozens of species existing colors on the domestic market, some brand provide corresponding color cards to choose. The increase of color species according to the basic principle of three primary colors, will have new color via proportion the of different harmonic, through close, roller compaction, create more colors.

The fourth , the polymer materials can be long-term preservation. Polymer clay is oily material, itself does not contain water, easy to save. not metamorphism at room temperature. For the opened and the semi-finished products, we just need to wrapped by aluminum box or waxed paper, or can be placed in the shade (avoid directly sunlight when stored in or near the high temperature, so as to avoid to produce chemical reaction). After high temperature baking, the finished product because water emergence and become harden, also won't eat by moth. the completion of the soft polymer works can be wash by water, will not burst or fade, daub light or a little oil can make the surface smooth, or use the methods such as spray varnish to protect the work, can good storage for a long time.

Polymer clay production process is not complicated, the production process in general can be divided into three aspects include knead plastic, baking model and perfection at the later stage. production technology mainly contain carved, engraved, plastic, etc. To do a good job, must first sharpen his tool expression the importance of the tool box equipment, this chapter mainly discusses the soft pottery handicraft production equipment that the commonly used tools.

Section Three: Tools equipment and methods of polymer clay process

The equipments that the commonly used in polymer clay process are: table, it is advisable to fit smooth nonstick, usually use ceramic tile surface; Knife, wooden or metal texture, used for cutting, perfect the finished products. Rolling machine, when handle the big bulk of clay, similar to the home noodle press, advantage is of high efficiency and save the time of artificial kneading mud and easy to use, rolling out of uniform thickness of clay specifications; Metal rolling stick, auxiliary manual kneading mud, make clay more evenly, easy to use; Auxiliary tools, ruler, toothpicks, awl, scissors, tweezers, all-purpose adhesive, AB glue, etc., mainly used for measurement, drilling, glue, etc in the process of production needs; Aluminum and plastic wrap, the former is used as of the billet or filler when make larger or hollow clay works ,and the plastic is used to save polymer materials; Gold, silver, copper powder and pearl powder, etc., used in present surface texture effect after baking. Multi-speed grinding wheel for grinding after the increase work smooth and gloss,

improve the delicate degree of work; Transparent paint, spraying transparent paint in the surface of the finished product, make them form a layer of surface protective film, facilitate more long-term preservation; Oven, better to choose a fixed temperature oven and fluctuation has a resistance wire, easy to control temperature and heated evenly.

Practicality and originality :The practicality is embodied in its handcraft process when making Soft ceramic decoration , the characteristics of the material make the manual characteristic more attractive ,and it is also a great charm. Hand is temperature, linked with the mental life, manual is a kind of emotional express need, the unconscious trace retained after hand made, or consciously made to express certain ideas of his own, in order to pleasant oneself. In the production of polymer clay, the creator via technique such as kneading, stretching, pressing, feeling the soft clay material color, texture, plasticity and so on, combined with the understanding of the production, gain real experience. It is a sincere natural performance, more warmth and satisfaction, associative and creativity, its manual art fully condensed on the forming, extremely rich in aesthetic feeling and the milk of human kindness.

Trend of future development for polymer clay: Introductory information about the soft adornment shows the modern decoration design and the development trend of more people aesthetic elements, and the need for innovative design, the needs develop the broad space to the soft clay. The external environment and internal conditions provided of soft clay to play a crucial role for the future development of degree. Polymer clay materials of low cost, simple equipment needs (household oven), such hardware advantage, make polymer clay technology threshold and feasibility. And it has a strong artistic expression form of art, favored by polymer clay lovers. Then continuously cognition and promotion, its market is growing, Promote the development of the soft clay in the domestic. On the other hand, with the exploration practice of soft clay, it not only stay in making small handicraft production, but through the characteristics of the material itself into the decoration of the space environment now, its rich decoration language embodies artistic expression has the certain development space. Moreover, the application of soft clay in interior space decoration, weakened the mechanical atmosphere, injected new vitality, creativity and the imagination inspired and cultivate the embodiment of the social value. In addition, polymer clay has the flexibility of its creation and freedom, and the excitation of personal interests and meet the creation desire, etc., are very adapt to the current market, have the potential to popular technology. Faced with the wide prospect, the applications of soft ceramic decoration process should continue to innovate in the design, grasp the dynamic factors, design level, demand is different and flexible changes and positioning, pay attention to and the combination of contemporary art, based on the modern design personalized, nationality, with the attitude of diversified, to walk into more lives.

Reference

- [1] The Rural Residential Technology Based on Renewable Energy System Design Research, Liu Wenhe, China Building Industry Press, 2014-5-1 1
- [2] Evaluation Standard about Renewable energy Construction Application Engineering (GB/T50801-2013), National Standards of the People's Republic of China
- [3] Polymer clay household products ,YuHui, Henan science and technology press, 2013-1-5
- [4] New polymer design (both Chinese and foreign history of design and art), Qiao Lei, water conservancy and hydropower press, 2012-7-1
- [5] Soft pottery art, ZhouPing, Wuhan university of science and technology press, 2012-1-1