

# Research on the application of comprehensive materials in modern ceramic art creation

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**Abstract:** with the progress of the times and the innovation of materials, people's artistic concepts have changed, and the artistic literacy of the creators has been continuously improved. The development of ceramic art is facing a new creative environment, presenting the regular intervention form of comprehensive materials. In the creation of modern ceramic art, the application of materials has achieved a breakthrough in the boundary of clay, and promoted the combination of ceramics and comprehensive materials. The combination of different clay, glaze and other materials will change the inherent structure and manifestation of ceramics. This kind of integration of ceramic art creation not only increases the variety of works, but also widens the space of artistic creation, and widens the depth and breadth of ceramic art creation. In this regard, this paper analyzes the use of comprehensive materials in the creation of modern ceramic art, and provides reference for the development of ceramic art creation.

**Key words:** modern ceramic art creation; Comprehensive materials; Applied research

Introduction: material is an important foundation and constituent element of ceramic art creation, which can present a unique aesthetic feeling. The comprehensive materials involved in the creation of modern ceramics mainly include wood materials, fiber materials, bamboo materials, etc. different materials have different artistic characteristics. For example, wood materials can show primitive characteristics, fiber materials can show a sense of nature, and bamboo materials can show unique mechanical properties. When different materials are combined with ceramic materials, they can produce brand-new visual effects to better show the creator's design intent and ideas, and make the emotional expression more accurate.

## 1. Application significance of comprehensive materials in modern ceramic art creation

The introduction of comprehensive materials in modern ceramic art creation is of great significance. It is the diversified presentation and conceptual extension of artistic concepts, which can provide more ideas for creators from the theoretical and practical levels, and make the path of modern ceramic art creation more broad. Compared with traditional ceramic art creation, the use of comprehensive materials in modern ceramic art creation has very important practical significance, which is mainly reflected in the following aspects: first, the continuous updating of creative ideas. Under the influence of the concept of modern art creation, the thinking mode of art creators has been constantly changing, and gradually formed a new artistic thinking mode. Material consciousness is an important embodiment of the concept of artistic creation. Its application in practical creation can promote the creators to have in-depth thinking about the involvement of materials, promote the creation to get new development, transform ceramic art from a single form to a multi form, and make the connotation of works and modern aesthetic trend more intuitive. The application of comprehensive materials is an important premise of new art and new style, and has an enlightening effect on the creation of modern ceramic art. The second is the continuous innovation of creative practice. With the support of modern science and technology, comprehensive materials have been effectively integrated into ceramic art creation, enabling them to get rid of the limitations of the traditional model framework and rebuild a new model. In the process of practical creation, ceramic art creators have tried to apply appropriate non ceramic materials to ceramic art creation in many ways, so as to express their multi-level artistic perception and lay a good foundation for the development of modern ceramic art creation. In the new creation environment, the creator can form new aesthetic taste, realize the continuous exploration of the formal language of ceramic art, and deepen the value of ceramic art, so as to show the continuous development of ceramic art creation. Modern ceramic art creation focuses on the embodiment of multiple modes, that is, a variety of materials are involved from the perspective of integration, so as to reflect the boundaries and diversified forms of modern ceramic art, as well as the development trend and law of ceramic art. The application of comprehensive materials in the creation of modern ceramic art can not only enrich the artistic forms of modern ceramic art, supplement the aesthetic theory system of modern ceramic art, but also lay a good foundation for the aesthetic development of ceramic art and promote its more profound social significance.

## 2. Comprehensive expression of modern ceramic clay

Clay is the main material in the process of modern ceramic art creation. Different molding techniques will promote the performance of different characteristics of clay, and the final work will show different artistic effects, which can establish a profound communication between ceramic art creators and clay. With the application of new materials and new processes, the composition and structure of the clay are constantly changing, which is not only the demand of the creator's artistic creation, but also shows the creator's deep understanding of the clay. For example, melting hard materials and fusible fiber materials into clay can change the structure of clay, so as to innovate the effect of ceramic works, deepen the understanding of clay and provide a good medium for innovation. The comprehensive expression of clay can not

only change the creator's understanding of clay, but also stimulate the creator's interest in clay creation and promote the effective renewal of clay structure.

## **2.1 Comprehensive application of mud and mud**

Different clay materials have different characteristics, which can show different regional ceramic culture. Modern ceramic art creation can change the traditional expression of clay, break the inherent limitations of clay, and enrich its practical application path. In the actual creation process, the creator can combine his own understanding of clay and the different characteristics of clay to create works with different visual effects, so as to express his aesthetic interest. In the new era, the expression and application of clay gradually change from a single way to a diversified way. Ceramic art creators can combine the characteristics of different clay to create different works of art. For example, they can combine the differences between clay and clay to show the artistic interest of the works after comprehensive use. Among them, clay has strong viscosity and flexibility, but insufficient plasticity, Clay has strong plasticity, but poor viscosity and flexibility. The comprehensive application of the two can produce conflicting works of art, showing a more natural crack effect. Clay with different artistic languages can produce special artistic effects in the process of combining with each other and increase the attraction of artistic works. This effect urges ceramic art creators to constantly explore the comprehensive application path of clay. Through the study of mixed clay, they can deeply perceive its color, texture, etc., so as to find the expression style of clay and the positioning of different clay collocations, Establish an effective grasp of clay. Through the exploration of clay, it can be found that the color of clay is rich, and the comprehensive application of different colors of clay can show the corresponding rubber tire effect and change its inherent firing temperature. The creator can reasonably adjust the proportion of clay mixture in combination with artistic effect while knowing the data of clay burning temperature and shrinkage. For example, in order to pursue rich texture effect, the creator can combine clay with similar burning temperature and shrinkage, so as to strengthen the sense of form of artistic works and accurately grasp the path of artistic expression.

## **2.2 Comprehensive application of mud and other materials**

The comprehensive application of clay and other materials can effectively enrich the effect of ceramic works, and provide a new path for creators to explore ceramic texture. Different from the comprehensive application of mud and mud, the integration of other materials into mud can bring creative accidental effects and stimulate the creative interest of creators. For example, the comprehensive application of clay, clinker and hard materials can increase the plasticity of ceramic works, change the shrinkage ratio of clay, enrich the firing effect, and finally present a unique artistic effect. The main reason for this effect is that most of the added substances will not disappear after firing, and some components will react with the mud, such as raw ore particles, metal powder, etc., which can show a special metal texture after firing; For another example, wood chips, foam and other combustible fiber materials will not change the shrinkage ratio of the mud in the comprehensive application, but will gradually disappear in the firing process and form different texture.

## **3. Application of comprehensive materials in modern ceramic art creation**

The application of comprehensive materials in the creation of modern ceramics can promote the ceramic works to show a distinctive style. The creator should not rely too much on the application of comprehensive materials, but should pay attention to the main position of clay, focus on the application of ceramic materials, and realize that the application of comprehensive materials only enriches the shape of modern ceramics. In this regard, ceramic art creation practice should focus on the performance and safety requirements, reflecting the feasibility of creative activities.

### **3.1 Comprehensive application of ceramic and transparent materials**

In order to achieve the ideal artistic effect, ceramic art creators need to create with the help of various materials. This process needs to fully consider the combination of various materials and the properties of ceramic materials. For example, transparent materials have the characteristics of dynamic beauty and spatial beauty, and their combination with ceramic materials can produce noble effects. In the process of comprehensive application, the creator should consider the shrinkage ratio, firing temperature, embedded adhesion and other factors of the two kinds of materials, so as to reduce the difficulty of combining the two and promote the formation of the final effect. For example, the combination of cup making materials and glass materials shows the combination of porcelain and translucent materials, which can produce the beauty of dynamic and static combination and bring beautiful visual effects. The combination of the two materials does not directly list the two materials, but with the help of transparent resin materials, which are mixed and stirred and injected into the container to form the final effect. In this process, the creator needs to use the mold to maintain the final shape. The resin material has strong adhesion and is transparent. After solidification, it can penetrate and integrate with the ceramic art, providing more ideas for the creator's artistic creation.

### **3.2 Comprehensive application of ceramic and metal materials**

Metal materials can bring dignified and stable visual effects, and form more conflicting expressions with ceramic materials. The combination of the two can form a "cross-border" of materials. In practice, the creator can combine metal materials for ceramic creation, solve the limitations of ceramic structure and combination, take into account the special nature of both, and provide more space for artistic

creation. Among them, ceramic materials have different characteristics, pottery clay has rough effect, porcelain clay has soft effect, and different metal materials have different luster, most of which have high hardness and density. In this regard, the creator should select the corresponding metal materials according to the above characteristics for combination creation, such as combining matte metal materials with clay materials, reflecting the works of art with a sense of volume, showing the conflict between traditional art and modern art, and being more masculine as a whole. The combination of bright metal materials and porcelain clay materials can create daily ceramic products. There are many factors to be considered in the comprehensive application of metal materials. It is not only necessary to consider the center of gravity of the material to avoid the differences of works and poor appreciation, but also to consider the space problems caused by the change of materials, such as the non shrinkage of metal and the shrinkage of ceramics after firing. In addition, we should also consider the gloss and brightness of materials. Different materials have different brightness. The special luster of metal has brought more possibilities to the creation of modern ceramic art. Creators can explore it by combining the color and brightness of different metals.

### 3.3 Comprehensive application of ceramic materials and wood bamboo materials

Wood materials are porous materials, which have delicate texture and affinity. Their texture is relatively soft, and there is a large space for development in the process of combining with ceramic materials, which can be used for bonding, embedding, carving and other operations. In practice, wood and bamboo materials and ceramics can be carved to show the contrast between the texture of wood and bamboo materials and the texture of ceramics, making ceramic works more in-depth. The wood material itself is warm and stable, and the bamboo material is elegant and refreshing. The wood material can be organically combined with the ceramic material by carving and cutting, and the bamboo material can be combined with the ceramic material by weaving, so as to show the special texture of the work. First, the functional collocation of wood materials. The wood material is always soft and hard. It can reflect its natural color through engraving, and expand the comprehensive application space through mortise and tenon structure, inlay and other techniques. For example, the work of the justice cup with the wood material as the handle, the unique lines and color of the wood material can enhance the quiet color for the overall shape, and the handle can be naturally coated after long-term use, Further increase the appearance. In addition, the design of wooden handle can prevent scalding and enhance its functionality and practicability. Wood materials have their own unique design language, and different textures and colors will produce different visual effects. Secondly, the use of artistic language of bamboo materials. Bamboo itself has a profound cultural heritage, and it has the temperament of a gentleman. Many literati throughout the ages have compared the noble character to bamboo, while ceramics itself has the characteristics of fragile and noble. From this, we can see the temperament fit between bamboo and ceramics. In this regard, the creator can use the bamboo weaving process to combine bamboo materials with ceramic materials, and make fine bamboo wires through bamboo breaking, layering, color fixing, wire cutting, and even drawing, and then use the bamboo wires to wake up the weaving, so that the bamboo materials can more closely fit the porcelain surface. For example, the porcelain body bamboo tea set. The surface is made of bamboo and the interior is made of ceramic, which makes the user feel delicate and warm. The whole is very novel.

### Concluding remarks

To sum up, the application of comprehensive materials provides more possibilities for the development of ceramic art creation. It not only reflects the creator's open creative thinking and multi-directional exploration of ceramic art expression style and techniques, but also fully exploits the application potential of different materials and promotes different materials to show more innovative effects, To better show the charm of ceramic art. In the process of comprehensive material application, the creator can express his artistic perception with the help of different materials, help the development of ceramic art through the exploration of material application, and reflect the ceramic art creator's understanding of ceramic works and the expression of aesthetic value in different times. In this regard, in the process of artistic development, creators should focus on awakening the potential of comprehensive materials in their creation, and provide new ideas for the development of ceramic art creation.

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