

ART CLAY SILVER

Overlay Silver Paste

Thank you for purchasing ART CLAY SILVER / OVERLAY SILVER PASTE. Please read the instructions and directions carefully before use.

[CHARACTERISTICS]

◆ART CLAY SILVER consists of pure silver powder, binding agent and water. The binding agent is produced from harmless pulp fiber. ◆During firing, the pure silver particles solidify. The binding agent consists of carbon, hydrogen and oxygen which when fired together results in the release of harmless carbon dioxide and steam. ◆Overlay Silver Paste is in a viscous, liquid form, so that you can express 3 dimensional drawings on a surface of ceramic, porcelain or glass.

[INSTRUCTIONS]

◆ Some silver settling may occur at the bottom of the jar. Stir the paste well with a brush or metal spatula before use ◆This product is water-based and can dry up. Always keep the container tightly capped. (If it dries up, add a little water to recover its original state) ◆To dilute the paste, take out the required amount and place it in a different container. Then, add the necessary amount of water. Do not dilute it directly in the bottle. ◆ It is important that your kiln's pyrometer is functioning properly. The melting point of fine silver is 965°C/1769° F. It is recommended that your firing temperature does not exceed 900°C/1652° F. ◆ Always be sure to ventilate the workroom well when using a kiln.

[DIRECTIONS]

Preparation

● Clean the surface of the ceramic or porcelain well with alcohol or soap and water to remove any dust or oil which may interfere with the silver sticking to the surface.

● Thin the paint with water to the consistency needed in order to paint the surface.

● The recommended thickness is less than 0.5mm. If the application is too thick, it may delaminate from the porcelain surface with the glaze after firing or by polishing.

Overlying & Drying

● The applied paste must be completely dried before firing. It can be dried in the following ways:

■ Hair dryer: At least 10-15 minutes with a 1200w hair dryer. Place the dryer within 15cm/6 inches from the piece.

■ Food Dehydrator: At least 10 minutes at 60°C/145° F

■ Oven: At least 7 minutes at 180°C/330° F

■ Cooking plate: At least 7 minutes at 150°C~180°C/300-330° F

■ Kiln: At least 7 minutes at 150°C/300° F

■ Natural drying: At least 1 hour at room temperature

*Do not apply heat over 250°C/480°F, or the binders will burn away before firing and the shape of the layer may change.

How to tell when the piece is dry enough

Take the still-warm piece and place it on some stainless steel, glass or plastic sheet. After 10~20 seconds pick up the piece. If there is no cloud of water vapor, it is dry. (It is easy to check for condensation on black stainless steel, glass or plastic.) If the piece is cold, warm first by hot air dryer for five minutes, then conduct the test as explained above.

Firing

To fire, place the piece in a cold or warm kiln (below 300°C/572° F). It is safest to start with a cold kiln. Take at least 15 minutes to reach firing temperature.

● You must fire the piece with a programmable electric kiln, which is equipped with a temperature control.

● Preparation: Ventilate your workroom well.

● Ramp the kiln to a temperature of 800°C/1472° F.

*Ramping time varies by type and size of the kiln. Please refer to your kiln manual.

● After reaching 800°C/1472° F, turn off the kiln and cool down to 100°C/212° F.

● Take out the piece after the kiln's temperature drops down below 100°C/212° F.

* Quickly cooling the piece, such as quenching, may cause it to break or crack.

● The surface of the fired piece will be white and matte due to crystallization of silver during firing, but a luster can be obtained by polishing. (i.e. Stainless blush, Burnisher, Sandpaper, File, etc.)

● The completed piece is pure silver(99.9%).

Completion

[Precautions]

◆ Keep the clay indoors out of direct sunlight. ◆ Do NOT keep in a refrigerator. ◆ Use soon after opening. ◆ When drying and baking, take care to prevent burns or fire. ◆ Ventilate your workroom well during firing. ◆ Keep this product out of the reach of children. ◆ If you get any of this product in your eyes or mouth, flush immediately with plenty of water and call your physician. ◆ Avoid contact with your skin. If skin irritation or itching occurs,

wash with water and consult your doctor immediately. ♦ Do not place a ceramic or porcelain piece that has the Overlay Silver Paste applied into a microwave oven. ♦ It is important to follow the recommended instructions when using the Overlay Silver Paste in order to ensure a successful firing.