Precaution for Handling

①This porcelain is for metal framework. Do not apply it to Alumina, Zirconia or Titan frameworks.
②Do not mix with other porcelain, either other Noritake porcelain or other manufacturers.
③The purpose of excess liquid in Universal Paste Opaque jar is to avoid drying. Do not mix excess liquid and Universal Paste Opaque in the jar.
④Universal Paste Opaque is properly when the surface has an almost egg shell look after baking. Please adjust your furnace to achieve this result.
⑤Before every baking Universal Paste Opaque on Ni-Cr alloys without beryllium and Co-Cr alloys, Clean the entire surface of the framework with the running water of steam cleaner to wash out substance that may cause greening.
⑥Keep Universal Paste Opaque and liquids in a dry and cool place(1~30°C / 34~84°F), avoiding direct sunlight.

Read the instructions carefully, keep them in a safe place for future reference.

Notes on Safety

①When mixing or grinding porcelain, use an approved dust mask and a vacuum air filter to protect the lungs from breathing dust.
②When mixing or grinding porcelain, ware safety glasses.
③It is non-edible. Keep it out of the reach children.
④Avoid eye contact with liquids. In the event of eye contact, immediately rinse with a copious amount of water and consult a physician.
⑤Do not touch items heated by the furnace with your bare hands.
⑥Keep Universal Paste Opaque and Liquid away from flames and high temperatures. They are flammable.
⑦This porcelain is for dental use only. Do not use for other purposes.
⑧For use only by dentists and dental technicians.

Warning

If the patient is hypersensitive to Dental Porcelain or any of the other components, this medical product should not be used.
Or it should be only used under the strict supervision of the patient's doctor/dentist.

All products mentioned in this manual are part of EX-3 system and are covered by its registered trade mark.

■SYMBOLS USED IN A LABEL

SYMBOL	MEANING
	MANUFACTURER
	USE BY
LOT	BATCH CODE
	CAUTION, CONSULT ACCOMPANYING DOCUMENTS. ATTENTION, SEE INSTRUCTIONS FOR USE.
EC REP	AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY

EU Authorized Representative
Name : EMERGO EUROPE
Address : Molenstraat 15, 2513 BH,
The Hague, The Netherlands

CE 0120

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http://www.noritake-dental.co.jp **Please access Noritake web-site for update.**

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Noritake

Super Porcelain EX-3

UNIVERSAL PASTE OPAQUE

ONE OPAQUE FOR TWO SYSTEMS

Super Porcelain EX-3
Porcelain Fused-to-Metal Restorations

Super Porcelain EX-3 PRESS
Porcelain Press-to-metal Restorations

Features

1. Universal Paste Opaque is used for not only for EX-3 but also EX-3 PRESS.
2. Universal Paste Opaque can be used for a wide range of alloys such as High noble, Noble, Co-Cr and Ni-Cr alloys. POBA is not necessary to be used when applying on Co-Cr or Ni-Cr without beryllium.
3. Universal Paste Opaque has a very good bonding characteristic with alloys and is very easy to use.
4. A wide variety of 22 shades including Noritake Original Shades and Esthetic Shades are available.

Technical Instructions

1. Metal framework Preparation and Degassing

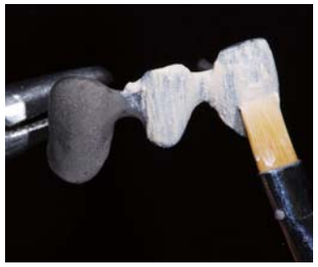
Follow the instructions of the metal manufacturers for sandblasting and degassing.

attention When using Universal Paste Opaque on Ni-Cr alloys without beryllium and Co-Cr alloys, after degassing, clean the entire surface and inside of the framework with the running water or steam cleaner to wash out substance that may cause greening.

2. How to use Universal Paste Opaque

Scoop out the desired amount and the desired shade of Universal Paste Opaque and put it on the palette. The surface of Universal Paste Opaque is covered with extra liquid in order to avoid drying. Please incline the jar and clip up from the no-liquid part.

attention Don't mix liquid with paste opaque inside the jar. Don't dispose liquid from the jar.



3. Wash Application

Be sure the surface of the metal framework is completely free of moisture. Using the tip of the brush, rub the surface with a small amount of Universal Paste Opaque to form a very thin layer.

attention Only dry brush should be used. DO NOT mix with even a small amount of water.

4. 1st Application

After a thin layer is rubbed, keep coating the metal framework with Universal Paste Opaque. 80% of the metal color should be hidden. Do not need too much condensation. Bake the metal framework after making sure that no residue remains. If Universal Paste Opaque residue is found, use a dry brush to remove it from inside of the metal framework. The surface has an almost egg shell look after first baking.

attention When dilute the desired amount of Paste Opaque with UP Liquid. Be careful that over-dilute will lead to fractures after baking.

5. 2nd Application

Apply the second layer of Universal Paste Opaque until the color of the metal framework is completely covered. Be sure that no Universal Paste Opaque residue remains inside of the metal framework.

attention When using Universal Paste Opaque on Ni-Cr alloys without beryllium and Co-Cr alloys, Clean the entire surface of the baked opaque with the running water or steam cleaner to wash out substance that may cause greening.

6. Universal Paste Opaque Modifier Application

Universal Paste Opaque Modifier can be mixed with Universal Paste Opaque to customize the shade or can be applied alone for minor modifications. When Modifier is used as a stain, dilute it with UP Liquid to make desired viscosity and apply during the second application.

attention Apply earth brown or reddish brown separately. If earth brown or reddish brown is mixed with other shades, the desired color can not be obtained after baking. The desired color can be changed after baking due to the storage condition. Internal Stain can be used on Paste Opaque also.

7. After the Second Baking

Surface has an almost egg shell look after baking.

8. Build-up of Powder porcelain (Fused-to-Metal Restorations) or Wax-up for Pressed Ingots (Press-to-metal Restorations)

Follow the instructions

attention When using Universal Paste Opaque on Ni-Cr alloys without beryllium and Co-Cr alloys, Clean the entire surface of the baked opaque and inside of framework with the running water or steam cleaner to wash out substance that may cause greening.

Color Combination Table

Shade	A_1	A_2	A_3	$A_{3.5}$	A_4	B_1	B_2	B_3	B_4
Universal PO	$UPnA_1$	$UPnA_2$	$UPnA_3$	$UPnA_{3.5}$	$UPnA_4$	$UPnB_1$	$UPnB_2$	$UPnB_3$	$UPnB_4$
After UP bake	nColor / EW Layering Porcelain or Press Ingot								

Shade	C_1	C_2	C_3	C_4	D_2	D_3	D_4
Universal PO	$UPnC_1$	$UPnC_2$	$UPnC_3$	$UPnC_4$	$UPnD_2$	$UPnD_3$	$UPnD_4$
After UP bake	nColor / EW Layering Porcelain or Press Ingot						

Shade	$NP_{1.5}$	$NP_{2.5}$	NW_0	$NW_{0.5}$	EW_{00}	EW_0	EW	EWY
Universal PO	$UPNP_{1.5}$	$UPNP_{2.5}$	$UPNW_0$	$UPNW_{0.5}$	$UPEW_0$	$UPEW_0$	UPEW	UPEW
After UP bake	nColor / EW Layering Porcelain or Press Ingot							

Baking Schedule

	Using High nobel, Nobel, Ni-Cr alloys with beryllium 1st and 2nd bake		Using Ni-Cr alloys without beryllium and Co-Cr alloys 1st and 2nd bake	
Dry-Out Time	8min.		8min.	
Low Temperature	400°C	752°F	400°C	752°F
Start Vacuum	400°C	752°F	400°C	752°F
Heat Rate	65°C/min.	117°F/min.	65°C/min.	117°F/min.
Vacuum Level	96kPa *		96kPa *	
Release Vacuum	980°C	1796°F	**1000°C**	**1832°F**
High Temperature	980°C	1796°F	**1000°C**	**1832°F**
Hold Time	1min. (air)		1min. (air)	
Cool Time	0min.		0min.	

Note The above program is only a guideline. Baking temperature may be varied with the peculiarities of different furnace. Set the idle temperature of the furnace under 400°C(752°F) in order to avoid bubble problems.

*96kPa = 72cmHg (29 inchesHg)