



Remove tissue covering before printing

Laguna Clay Fired-On Images™ Transfer Paper MS (Multi-Surface)

Hand Glazed Fired Surfaces--Unfired Glazed Bisque-- Unglazed Bisque
Store Bought Glazed Surfaces---Fusible Glass

Updated 5/16

Preparing Images

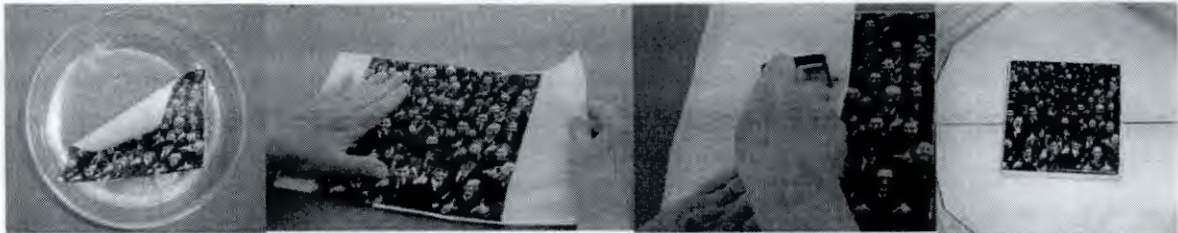
There are two basic ways to place your images on the transfer paper:

- **Untouched Images:** Images can be directly applied to the transfer paper using **Any HP or Canon Multifunction Black *ONLY** Laser Printers or Photocopiers
- **Manipulated Images:** Images may be scanned, e-mailed, downloaded, copied from CD or input directly from digital cameras and manipulated on a computer using any graphics software and printed using:
ANY HP or Canon *Black-ONLY Laser Printers/ Photocopiers or Fax *If printer can print in color or is another brand the process will not work.

Printing Images To print your image onto the **Fired-On Images Transfer Paper:**

1. Set printer for **plain paper** standard US size **8 ½" x 11"**
2. Run a few sheets of plain paper through the printer to warm up the printer fuser roller.
3. Remove tissue protective covering, if present, before printing.
4. Place transfer paper into the **manual feed slot** of the printer one sheet at a time.
5. Print your image onto the **glossy side** of the transfer paper

Applying Images



1. Cut out image and soak in warm water for a few minutes
2. Place image on ware and slowly pull backing paper out from underneath
3. Put a paper towel down over image use a "brayer" roller to push out water + bubbles
4. Firing temp depends on surface and/or glaze type

Hints:

- a. Cut image close to edges
- b. Use warm water to soak images
- c. Lift image out of water with backing paper still attached
- d. A soft brayer can be used to push out water, start at center out to edges
- e. Firing temperature is dependent on surface or glaze type: see page 6
- f. Images can be fired at any firing rate that is compatible with the glaze/ clay or fusible glass type
- g. Images fire to a lovely sepia brown and can be colorized with traditional painting /glazing techniques
- h. Outside venting system is recommended while film burns away



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FIRING: See full chart of transfer / decal firing temps and compatible glazes on page 6.

Firing Images onto Hand Glazed Pre-Fired Surfaces On-Glaze

Great for intricate or large designs and photographs



White backgrounds give best contrast for photographs



Images can be added on anywhere there is glaze



Logo's and signatures can be added to the bottom in the same firing

Hints:

- WORKS with ALL pre-fired Hand Glazed surfaces LOW and HIGH FIRE**
- Most pre-fired glazed surfaces require a cooler transfer/decal fire temp than the original glaze fire. see chart p 6 for full chart.
- PYOP Studios: If desire to have transfer fire back to cone 06 use one of the cone 06 transfer firing compatible glazes on p6. No clear **Most brands of clear require a much lower transfer fire temp. see chart p6. **Spectrum 700 only clear for cone 06 image fire.**
- Images can be placed anywhere there is glaze but do not touch the shelf or stilt
- Smooth flat surfaces are easiest to work with
- For store bought factory-glazed ware see page 4 for transfer/ decal firing temps.

Adding Color Underneath during Glazing/ Majolica Style



1. Paint 2 coats white glaze
Let dry. Trace image on



2. Paint in the lines with colored glaze



3. Fire to cone 06



4. Soak and slide image into place
push out water & bubbles



5. Fire to Cone 010-08

Hints:

- Majolica style glazing (white basecoat & colors on top) also works well with Amaco Under-glaze chalks and pencils
- Images can be printed directly to ***Clay Carbon for tracing (***)carbonless tracing paper)
- Print decal at same time as clay carbon to ensure same exact size.
- This method requires no clear glaze but if clear is used check chart page 6 for correct transfer firing temperature
- If you want to fire transfers back up to **cone 06** use a basecoat of cone 06 transfer fire compatible glazes on p 6. Spectrum 799 white base is best to fire decal to cone 06!!
- Cone 5 users need to adjust transfer size to account for clay shrinkage.
- Low fire China Paints and Overglazes or cone 06 compatible glazes can be used to "colorize" images in additional firings cone 06 compatible glazes which can be re-fired as "overglaze" use same brands of color. See chart on p 6. Red glazes do not work as overglazes on images. If red is desired use the majolica style glazing technique above.



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Firing Images on Top of Unfired Glazed Bisque ONE-FIRE IN-GLAZE:

Great for PYOP Studios and Schools



1. Paint 2 coats cone 06 glaze*, let dry, cut out image & soak in warm water



2. Wet the area then slide image off of backing paper



3. Gently push water & bubbles out from center toward edges



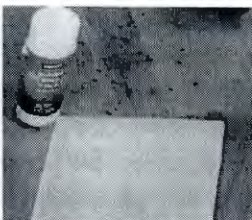
4. Fire to cone 06

For best results use recommended cone 06 One-Fire compatible glazes: See chart on p. 6
Check www.fired-on.com for updates on compatible glazes

Hints:

- Smaller images work best (Images larger than 4-6" use the original on-glaze method)
- *White backgrounds works best for photos.*
- Some glaze brands recommended a higher than 06 or cone 5 glaze firing temp. When firing images & glaze together... fire no more than cone 06 for low fire or cone 5 for midrange
- Let glaze dry thoroughly before applying image
- Dip clean brush or fingertips into water and spread water along surface before applying image... wet glaze acts as adhesive
- Push water and bubbles out very gently with fingers, a brayer on top of a paper towel is best... do not leaving any dry spots or bubbles. If not adhered completely carefully lift edge of image near dry spot and insert a small soft brush with water on it and press down gently
- Clean off any glaze that gets on the image surface with a soft paper towel ... gritty glaze on image may scrape off toner while pushing out water.. be gentle.
- Small areas of color can be added underneath. See Majolica style painting on p.2. Let dry thoroughly ... colors may run slightly when water applied to apply image.

Firing Images on to Unglazed-BISQUE & Greenware



1. Rub bisque with "washable" glue stick then sprinkle with water and smear glue around evenly with fingers



2. Soak and apply image push out bubbles & water let dry fire to cone 020-06



3. Paint in the lines with cone 06 glaze



4. Paint on 2 coats of Spectrum 700 clear fire to cone 06



5. Finished tile

Hints:

- Most under-glazes or one step cone 06 glaze colors work well to add color.
- **Spectrum 700 Clear is the only clear works over unglazed bisque images in cone06 fire.**
- Other Options: Use another brand cone 06 clear and decal image will almost disappear during cone 06 firing... use for an under-painting guide or reapply decal and fire to cone 014.
- Add images direct to damped clay without added glue: just lightly re-wet the area and apply image, bisque fire, then add color and cover with **Spectrum 700 Clear**.. fire to cone 06 max
- ****(NEW) Images applied to fully vitrified smooth porcelain bisque like **Laguna Frost** may be permanent without glaze; fire images to at least cone 04 (cone 6 porcelain) and cone 01 (cone 10 porcelain). Test!!



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Firing Images onto Store-Bought Factory Glazed Ware:

Transfer Firing Temp depends on ware type (test on small inexpensive pieces first)

Type of Glazed Surface	Transfer Firing Temp
Ceramic: including Wall Tile, Dinnerware and Thick Porcelain Ornaments	Cone 08-07
Porcelain or Stoneware and Floor Tile (floor tile should say "can be used on floor")	Cone 02

Hints:

- If using dinnerware: be sure it has "microwave and oven safe" printed on the bottom.
- If image fades... fire cooler. If image wipes off... fire hotter.
- China Paints or overglazes can be used to add color in additional firings
- Porcelain painters see www.fired-on.com for low fire (cone 018-016) tutorial
- Hint: Flip Method for Darker Images on Pre-glazed Ware:** *Images on with lots of dark areas fired onto pre-glazed ware tend to crackle slightly ... Print the image in reverse and then borrow some adhesive from a blank square of transfer paper and spread it onto the area before applying the image toner side down .*

Firing Images onto Fusible Glass:

Images can be fired onto any color or type of smooth surfaced fusible glass.

- Images can be fired as many times as you like to **any** firing schedule but for best results when making un-capped projects, fire your images from 1250°F-1300°F (676°C-704°C)
- Capping is not necessary but if desired; First fire images on to the underneath layer and then add cap and fire again (*iridized and the tin-side of float glass may require capping in order to fully fuse*)

Hints:

- The best image clarity and contrast is provided by using white or light opaque (Opal) glass. (If using Iridized, tin side of float glass or Dichroic glass, test first on a small scrap piece)
- When using translucent or transparent glass, stack an opaque layer under the clear layer and adhere image to the top layer
- Some types of glass (thick or fire polished) may require a higher firing temp. Test on a small piece first. If image rubs off... fire higher. if image fades... fire cooler.
- Outside venting system is recommended while the film material burns off

Adding Color:

All images will fire to a beautiful sepia brown color and can be colorized by:

1. Using Colored Glass under the Image:

The transfer film is transparent so the areas that are light or white in your original image will be colored according to the color of glass underneath.

2. Painting under the Image:

Colored enamels or frits can be painted on and fired before the image is applied, allowing the color to show through from underneath. trace image onto glass and then fill areas where you want color to be and then fire. Then apply your transfer over colored areas and fire again.

3. Painting over the Image:

Transparent enamels can be applied over the already fired transfers and fired again. This method works great for "colorizing" photographs.



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Troubleshooting

- 1. Black Toner smudged when you remove water from the unfired transfer paper:**
Run a few plain paper sheets through the printer to heat it up before printing on the transfer paper. Use a brayer (rubber roller) over paper toweling to remove water and bubbles and prevent smudging.
- 2. Image has disappeared completely after firing:** Make sure that you are using ANY HP or Canon **BLACK & WHITE ONLY Laser Printers or Multifunction Printer /Copiers or Fax machines** to make your image. Only use authentic HP or Canon toners, no substitutes. Make sure to use only "Fired-On Images™" Brand of Transfer Paper. Check your kiln with cones often to be sure you are not firing hotter than cone 06! Images will fade if fired over true cone 06.
- 3. Image wipes off after firing:** Transfer firing too low, try again at a higher temperature. Porcelain Painters check the tutorial on www.fired-on.com for cone 018 temp firing hints
- 4. Image has faded after firing:** Transfer firing temperature is too hot...use a lower temp.
- 5. PYOP and Schools: For cone 06 decal firings:** Use base coat of cone 06 transfer fire compatible glaze. see p. 6. Best results at cone 06 with Spectrum 799 Majolica White. Clear coat not required with 3 coats of these glazes. If clear is desired use Spectrum 700 brush-on clear only. **TEST KILN TEMPERATURE** with witness cones!! If your kiln fires any hotter than cone 06... images will fade
- 6. Image has cracks in it:** Small microscopic crackling is normal but if you see large cracks or holes after firing, be sure to handle the film as little as possible by lifting the backing paper out of water bath with film still attached then slide film onto surface gently. Use a rubber roller "brayer" over a paper towel laid on top of the image then remove water and bubbles. If using images with lots of dark areas and cracking is an issue ... reverse image (if it matters) and apply toner side down. Use the adhesive under the film from a blank scrap of transfer paper (do not reverse if doing one-fire in-glaze technique)
- 7. Ware has cracked after firing:**
Stoneware requires a slow fire for both heating up and cooling down.
Porcelain and stoneware must be dry footed...placed directly on kiln shelf
- 8. Glazed Surfaced has bubbled during image firing:**
The Glaze you used is not suitable for additional high temperature firings. Try another glaze. For best with factory glazed tableware be sure that it has a permanent label stating "microwave safe" fired onto bottom.

For more information including project ideas see the book:

"Fired-On Images for Ceramics, Stoneware, Porcelain and Glass/2nd Edition" by Terrie Banhazl

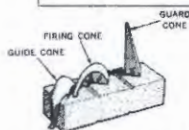


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Transfer Firing Temperature Chart for Hand Applied Glazes

Image firing temp is method (On-Glaze) or (In-Glaze) and brand specific
(see page 4 chart for factory glazed ware)

If firing image to cone 06: Test auto programmable kilns with cones 07,06, 05 self supporting cones. (See diagram below)For best results Kiln Temp should not exceed much more than 1819°F/ 993°C(cone 06) If image fades fire cooler	Glaze Firing Temp	On-Glaze Temp	ONE-FIRE IN-GLAZE	
			Firing temp Use this recommended firing cone# (jar may say fire hotter)	Graphics, Text, Photos
Glaze Brands	Cone #	Cone #	Cone #	Works?
Cone 06 transfer fire compatible:				
Spectrum 700 series, 300,400 series colors	06-05	08- <u>06</u>	<u>06</u>	excellent
Spectrum 700 Clear	06	08- <u>06</u>	<u>06</u>	Very good
Amaco GDC Majolica	06	08- <u>06</u>	<u>06</u>	excellent
Mayco Foundations Mayco Stroke & Coat	06	08- <u>06</u>	<u>06</u>	Very good
Gare Fun Strokes Gare Surface Coat	06	08- <u>06</u>	<u>06</u>	Very good
Duncan Concepts	06	08- <u>06</u>	<u>06</u>	Very good
Colorobbia Bellissimo	06	08- <u>06</u>	<u>06</u>	excellent
Other cone 06 glazes use a cone 010-08 transfer fire:				
Amaco Teachers Palette Amaco LG	06	010-08	n/a	no
Laguna Creatable Colors	06	010-08	n/a	no
Other brands 06 colors	06	08-010	n/a	no
**All Other Brands Clear	06	014-015	n/a	no
CONE 5/6 Glazes				
Duncan Renaissance Glazes Pistachio, Heirloom Blue, Buff, Buttermilk, Burnt Apricot	5/6	<u>06</u>	5	good
Mayco SW Stoneware Alabaster, Frost Blue, Maycochino, Dunes	5/6	<u>06</u>	5	good
Other cone 5/6 glazes	5/6	06-02	n/a	no
All Cone 10 glazes	10	<u>02-1</u>	n/a	no



Check out UPDATES page on www.fired-on.com for updates on glaze tests