

HEAT TRANSFER WAREHOUSE



HARD SURFACE PAPERS INSTRUCTION GUIDE

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HEAT TRANSFER WAREHOUSE HARD SURFACE I

OVERVIEW

DESCRIPTION

HTW Hard Surface I is for imaging to hard substrates with a smooth surface in full color using a laser printer or copier and heat press.

Print Mirror imaged and heat apply.

This paper is a self trimming, toner release only, leaving only the image you print. Using our instructions, most imaged substrates will have scratch resistance protection.

Due to the varying instructions for the different substrates that this paper can apply to, please refer to the detailed instructions for the specific substrate you plan to image onto.

Recommended Materials

- White or Light Colored
- Metal
- Plastic
- Unisub Metals
- Coated Wood (Lacquered)
- Ceramic Tiles
- Ceramic Mugs
- Some types of Cardboard

Accessories Required

- Computer, Color Laser Printer,
- Heat Press. Foam Heat Pad, Felt pad (optional)

Printable side

The printable side (white Glossy coated side) It is also the adhesive side

Pressure Settings

Heavy Pressure is required for the image to completely adhere to the hard substrate.

Image Design

This paper works best with a full bleed image. When designing your image, ensure that you bleed your image at least 0.5 inches more than the substrate.

Peeling

Depending on the substrate you are imaging, the peel could be cool or hot. Please read instructions for substrate carefully.

Care Instructions

After imaging, do not put in direct sunlight. Store at room temperature.

Storage

HTW Hard Surface I has an indefinite shelf life when stored at room temperature. Keep away from direct heat, sunlight and humidity.



HEAT TRANSFER WAREHOUSE HARD SURFACE II

OVERVIEW

DESCRIPTION

HTW Hard Surface II is for imaging to hard substrates with a porous surface in full color using a laser printer or copier and heat press.

Print Mirror imaged and heat apply.

The paper will leave a thin transparent microfilm around all areas of the surface which helps to protect the surface from scratches. The original texture of the surface will be maintained when imaged. Ideal for awards and trophy applications!

Due to the varying instructions for the different substrates that this paper can apply to, please refer to the detailed instructions for the specific substrate you plan to image onto.

Recommended Materials

Light Colored
Wood, Leather
Glass, Crystal, Acrylic
Lacquer finished wood is not recommended

Accessories Required

Computer, Color Laser Printer, Heat Press. Foam Heat Pad

Printable side

The printable side (white Glossy coated side) It is also the adhesive side

Pressure Settings

Using high pressure will allow the texture of the substrate to show through more. However this is not recommended for Glass, Crystal, or Acrylic.

Picking Substrates

When picking substrates, ensure that there is minimal warping when heat is applied. After pressing, we recommend to put a heavy heat resistant paper weight on all areas of

the substrate to prevent warping.



HEAT TRANSFER WAREHOUSE

OVERVIEW

DESCRIPTION

HTW Crystal is for imaging crystal, glass, and acrylic in full color using a laser printer or copier and heat press.

Due to the specially formulated coating that has been applied to the paper, it will allow the paper to stick onto the glass, crystal, acrylic substrate with ease. The printable side is also the adhesive side. Images produced will look exactly the same as it came out of the printer, because the paper is essentially attached to the substrate.

Due to the varying instructions for the different substrates that this paper can apply to, please refer to the detailed instructions for the specific substrate you plan to image onto.

Recommended Materials

Transparent or Tempered
Crystal
Glass
Acrylic

Accessories Required

Computer, Color Laser Printer,
Heat Press. Foam Heat Pad

Printable side

The printable side (white Glossy coated side) It is also the adhesive side

Pressure Settings

This paper does not need a high pressure for the paper to stick onto the glass. Light pressure will be enough.

Picking Substrates

When picking substrates, ensure that there is minimal warping when heat is applied. After pressing, we recommend to put a heavy heat resistant paper weight on all areas of the substrate to prevent warping.

Image Design

This paper works best with a full bleed image. When designing your image, ensure that you bleed your image at least 0.5 inches more than the substrate so that it is easier to cut the excess paper off after.

Peeling

No peeling is required. The paper will stick to the substrate. When the glass cools, Trim excess paper from around the object.

Care Instructions

After imaging, do not put in direct sunlight. Store at room temperature.

Storage

HTW Crystal has an indefinite shelf life when stored at room temperature. Keep away from direct heat, sunlight and humidity.





ACRYLIC

INSTRUCTIONS

HTW Crystal

Paper Mode: Heavy to Label 1

Print Mode: Right Reading

Temperature: 320F

Time: 45 sec

Trim: Cool

Pressure: Light

HTW Hard Surface I

Paper Mode: Color to Label 1

Print mode Mirror Image

Temperature: 300F

Time: 60 seconds

Peel: Cool

Pressure: Heavy

HTW Hard Surface II

Paper Mode: Heavy to Label 1

Print Mode: Mirror Image

Temperature: 300F

Time: 50 seconds

Peel: Cool

Pressure: Heavy

Acrylic

Any white or light colored acrylic

Materials Required:

Heat Press, Laser Printer, Felt Heat Pad, Acrylic substrate

HTW Crystal

- 1.) Insert into bypass tray and print right reading
- 2.) Print image in heavy to label 1 mode, right reading.
- 3.) Place substrate with backside face up
- 4.) Place imaged paper with image side face down
- 5.) Place foam pad on top
- 6.) Press for 320F at 45 seconds
- 7.) Wait for substrate to cool and trim excess paper around object

Note: Use extremely light pressure when using HTW Crystal. Excessive pressure will result in an unclear image.

HTW Hard Surface I

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in color to label 1 mode, mirror image
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down
- 5.) Place foam pad on top
- 6.) Press for 300F at 60 seconds.
- 7.) Wait for substrate to cool and peel backing off cool.

HTW Hard Surface II

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in heavy to label 1 mode, mirror image
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down
- 5.) Place foam pad on top
- 6.) Press for 300F at 60 seconds.
- 7.) Wait for substrate to cool and peel backing off cool.

CARDBOARD PUZZLES

INSTRUCTIONS

HTW Hard Surface 1

Paper Mode: Heavy to Label 1

Print Mode: Right Reading

Temperature: 300F

Time: 60 sec

Peel: Hot

Pressure: Heavy

HTW Hard Surface II

Not Applicable

HTW Crystal
Not Applicable

Cardboard Puzzles

Any white or light colored cardboard puzzle.

Materials Required:

Heat Press, Laser Printer, Foam Heat Pad, Cardboard Puzzle

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate
- 5.) Place foam heat pad on top of substrate
- 6.) Press at 300F for 60 seconds. Use Heavy Pressure. Peel hot.





CERAMIC MUGS

INSTRUCTIONS

HTW Hard Surface I
Paper Mode: Color to Label 1
Print Mode: Mirror Image
Temperature: 360F
Time: 150 sec
Peel: Cool
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

Coated Ceramic Mugs
(sublimation or laser) Mug Press without idle time

Any white or light colored coated ceramic mugs

Materials Required:
Mug Press, Laser Printer, Foam Heat Pad, Coated Ceramic Mug

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Wrap imaged paper with image facing the mug
- 4.) Secure the imaged paper onto mug with heat tape
- 5.) Wrap foam pad around mug and place into mug press.
- 6.) Adjust pressure according. Ensure pressure is heavy
- 7.) Close mug press and press at 360F for 150 sec
- 8.) Let Mug cool and dunk into cold water. Then peel paper off.

Note: Not enough pressure will result in incomplete image transfer

HTW Hard Surface I
Paper Mode: Color to Label 1
Print Mode: Mirror Image
Idle Temp. 300F
Temperature: 360F
Time: 100 sec
Peel: Cool
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

Coated Ceramic Mugs
(sublimation or laser) Mug Press with idle time

Any white or light colored coated ceramic mugs

Materials Required:
Mug Press, Laser Printer, Foam Heat Pad, Coated Ceramic Mug

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Wrap imaged paper with image facing the mug
- 4.) Secure the imaged paper onto mug with heat tape
- 5.) Wrap foam pad around mug and place into mug press.
- 6.) Adjust pressure according. Ensure pressure is heavy
- 7.) Close mug press and press at 360F for 100 sec
- 8.) Let Mug cool and dunk into cold water. Then peel paper off.

Note: Not enough pressure will result in incomplete image transfer



CERAMIC TILES

INSTRUCTIONS

HTW Hard Surface I

Paper Mode: Color to Label 1

Print Mode: Mirror Image

Temperature: 330F

Time: 300 sec

Peel: Cool

Pressure: Heavy

HTW Hard Surface II

Not Applicable

HTW Crystal

Not Applicable

Ceramic Tiles Full Bleed Image

Any white or light colored uncoated or coated Ceramic Tiles. These instructions are meant for a full bleed image.

Materials Required:

Heat Press, Laser Printer, Felt Heat Pad, Foam Heat Pad, Ceramic Tile

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Place felt pad onto heat press
- 4.) Place imaged paper with image face up onto felt pad
- 5.) Place substrate on top of paper with image side face down
- 6.) Place Foam Heat Pad on top of substrate to protect heat press
- 7.) Press at 330F for 300 seconds. Use heavy pressure and peel cool.

Note: You can secure the paper and substrate with heat tape
Note: Too much pressure and you will crack the tile, not enough pressure will cause beveled areas not to image completely

CL Hard Surface I

Paper Mode: Color to Label 1

Print Mode: Mirror Image

Temperature: 330F

Time: 180 sec

Peel: Cool

Pressure: Heavy

CL Hard Surface II

Not Applicable

CL Crystal

Not Applicable

Ceramic Tiles Non Full Bleed Image

Any white or light colored uncoated or uncoated Ceramic Tiles. These instructions have a shorter press time for non full bleed images only.

Materials Required:

Heat Press, Laser Printer, Foam Heat Pad, Ceramic Tile

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down
- 5.) Place foam pad on top
- 6.) Press for 330F at 180 seconds using heavy pressure
- 7.) Wait for substrate to completely cool before peeling paper off.

Note: This instructions set is for images that do not bleed over to the side. The shorter time will allow for faster production of tiles that do not have full bleed images.

1-888-819-4421



CRYSTAL/GLASS

INSTRUCTIONS

HTW Crystal

Paper Mode: Heavy to Label 1
Print Mode: Right Reading
Temperature: 320F
Time: 45-60 sec
Trim: Cool
Pressure: Light

HTW Hard Surface I

Paper Mode: Color to Label 1
Print Mode: Mirror Image
Temperature: 300F
Time: 60 seconds
Peel: Cool
Pressure: Heavy

HTW Hard Surface II

Paper Mode: Heavy to Label 1
Print Mode: Mirror Image
Temperature: 300F
Time: 50 seconds
Peel: Cool
Pressure: Heavy

Crystal/Glass

Any transparent Crystal or Glass substrate.

Materials Required:

Heat Press, Laser Printer, Felt Heat Pad, Acrylic substrate

HTW Crystal

- 1.) Insert into bypass tray and print right reading
- 2.) Print image in heavy to label 1 mode
- 3.) Place substrate with backside face up
- 4.) Place imaged paper with image side face down
- 5.) Place foam pad on top
- 6.) Press for 320F at 45-60 seconds
- 7.) Wait for substrate to cool and trim excess paper around object

Note: Use extremely light pressure when using CL Crystal. Excessive pressure will result in an unclear image.

HTW Hard Surface I

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in color to label 1 mode
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down
- 5.) Place foam pad on top
- 6.) Press for 300F at 60 seconds.
- 7.) Wait for substrate to cool and peel backing off cool.

HTW Hard Surface II

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in heavy to label 1 mode
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down
- 5.) Place foam pad on top
- 6.) Press for 300F at 60 seconds.
- 7.) Wait for substrate to cool and peel backing off cool.

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LEATHER/MAGNETS

INSTRUCTIONS

HTW Hard Surface II
Paper Mode: Heavy to Label 1
Print Mode: Mirror Image
Temperature: 300F
Time: 50 sec
Peel: Hot
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

Leather
Any white or light colored leather fabric. Recommended to print on the smooth side of the leather.

Materials Required:
Heat Press, Laser Printer, Foam Heat Pad, Leather Fabric

HTW Hard Surface II:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Heavy to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate
- 5.) Place foam heat pad on top of substrate
- 6.) Press at 300F for 50 seconds. Use Heavy Pressure. Peel hot.

HTW Hard Surface I
Paper Mode: Color to Label 1
Print Mode: Mirror Image
Temperature: 300F
Time: 60 sec
Peel: Cool
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

Uncoated Magnetic Sheeting
Any white or light colored uncoated magnetic sheeting.

Materials Required:
Heat Press, Laser Printer, Foam Heat Pad, Uncoated Magnets

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate
- 5.) Place foam heat pad on top of substrate
- 6.) Press at 300F for 60 seconds. Use Heavy Pressure. Peel cool.



METAL

INSTRUCTIONS

HTW Hard Surface I
Paper Mode: Color to Label 1
Print Mode: Mirror Image
Temperature: 330F
Time: 90 sec
Peel: Cool
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

Anodised Metal (Brass)
Any white or light colored uncoated metals. This includes, silver, gold, and white metals

Materials Required:
Heat Press, Laser Printer, Foam Heat Pad, Metal Substrate

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in color to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate.
- 5.) Place foam heat pad on top
- 4.) Press for 330F at 90 seconds, use medium to heavy pressure
- 5.) Wait for substrate to cool and peel with even and smooth motion

HTW Hard Surface I
Paper Mode: Color to Label 1
Print Mode: Mirror Image
Temperature: 330F
Time: 180 sec
Peel: Cool
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

DynaSub/UNISUB Metals
Any white or light colored coated metal for sublimation. This includes silver, gold, and white metals

Materials Required:
Heat Press, Laser Printer, Foam Heat Pad, Metal Substrate

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in color to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate.
- 5.) Place foam heat pad on top
- 6.) Press for 330F at 180 seconds, use medium to heavy pressure
- 7.) Wait for substrate to cool and peel with even and smooth motion



WOOD

INSTRUCTIONS

HTW Hard Surface II
Paper Mode: Heavy to Label 1
Print Mode: Mirror Image
Temperature: 300F
Time: 50 sec
Peel: Hot
Pressure: Heavy

HTW Hard Surface I
Not Applicable

HTW Crystal
Not Applicable

Uncoated Wood
Any white or light colored uncoated wood. Wood substrates that are sensitive to heat and warp when heated are not recommended. Please test before commercial production.

Materials Required:
Heat Press, Laser Printer, Foam Heat Pad, Uncoated Wood

HTW Hard Surface II:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Heavy to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate
- 5.) Place foam heat pad on top of substrate
- 6.) Press at 300F for 50 seconds. Use Heavy Pressure. Peel hot.

HTW Hard Surface I
Paper Mode: Color to Label 1
Print Mode: Mirror Image
Temperature: 275F
Time: 120 sec
Peel: Cool
Pressure: Heavy

HTW Hard Surface II
Not Applicable

HTW Crystal
Not Applicable

Coated Wood (Lacquered)
Any white or light colored coated wood. Wood substrates that are sensitive to heat and warp when heated are not recommended. Not all coated wood surfaces will work, please thoroughly test before commercial production.

Materials Required:
Heat Press, Laser Printer, Foam Heat Pad, Ceramic Tile

HTW Hard Surface I:

- 1.) Insert into bypass tray and print mirror imaged.
- 2.) Print image in Color to Label 1 mode depending on your printer
- 3.) Place substrate with image side face up
- 4.) Place imaged paper with image face down onto substrate
- 5.) Place foam heat pad on top of substrate
- 6.) Press at 275F for 120 seconds. Use heavy pressure. Peel cool.

Note: Do not press at higher temperatures as the coating on the wood may be heat sensitive and may cause bubbles to form.