

Precision

SECTION **2**

**SUPPLY
PACKAGE**

• SUPPLY PACKAGE •

- 4 -19"X22" Aluminum Frame Screens
- 20 -13"x1 6" Pre Cut Capillary Film Sheets
- 4 -Assorted Length Squeegees
- 1 -Opaque Exposure Board
- 5 -Quarts of Plastisol Ink
- 1 -Quart of Platen Adhesive
- 1 -Adhesive Applicator
- 1 -Pint Mesh Abrader
- 1 -Screen Blackout Liquid
- 1 -Quart Ink Zapper
- 1 -Quart "The Stripper" Emulsion Remover
- 1 -Quart "Ghost Be Gone" Haze Remover
- 2 -Scrub Pads, 1-Red, 1-White
- 1 -Scrub Pad Handle, Detachable
- 1 -Roll 3" Split Liner Screen Tape
- 1 -Washout Hose
- 25 -Pellon Test Squares
- 25 -Sheets of Laser Film
- 4 -Pre-Punched Mylar Registration Sheets

SUPPLY PACKAGE

Section 2





Your Supply Package

Your **Precision Screen Printer** Supply Package includes the most effective, environmentally friendly products available in the industry. All of the items in the chemical line are non-flammable, non-toxic, low odor and safe enough to use in a home business environment.

SCREENS

Your package includes 4 - 19"x22" aluminum screen frames stretched with 160 tpi [threads per inch] mono-filament mesh. This mesh count is very popular with screen printers for printing T-shirts and a variety of other substrates. It provides excellent detail and opacity while not depositing too much ink. Heavy ink deposits result in an undesirable, heavy, plastic like feel. Other screen meshes are available on request and are listed in the section of screens of this manual. Your Precision representative can assist you with choosing the right mesh for the job.

Aluminum screen frames, unlike wood, resist warping, solvent/ water retention and hold the tension of the fabric better. They are also easier to clean. Precision screens come complete with Pin Locators mounted directly to the screen frame. Each screen is stretched to a predetermined tension. Screen tension is very important to the quality and repeatability of your prints. These screens may be used and reused for many different images. If your screen mesh is ever torn or punctured you can return it to us to be re-stretched with the mesh of your choice.

STENCIL SYSTEMS

Included with your supply package is photo sensitive capillary film as the stencil material for your screens. Capillary film is a coating of emulsion applied to a clear plastic carrier sheet that ensures an even screen stencil thickness. Capillary film is clean, quick and easy to apply. The film is cut to size to further accommodate ease of use.

Another form of stencil material is Direct Emulsion. This is available through your Precision representative as well. Direct Emulsion is a liquid photo-sensitive material that is applied to the screen with the use of a scoop coater. It is applied to both sides of the mesh, dried and then exposed in the same manner as the capillary film. Direct emulsion can be messy and a little bit tricky to master in the beginning but remains an alternative to your screen making.

MESH ABRADER

Mesh Abrader is used on new screens to roughen up the surface of the fabric so the capillary film has some "tooth" to adhere to. Apply mesh abrader to a wet screen and scrub using one of the scrub pads supplied with your kit. Use a circular motion and cover the entire area where the capillary film will be applied. When done, wash out with plain water.

SQUEEGEE

The Squeegee you receive with your Precision Printer is the finest available. It features a hardwood handle and Polyurethane blade. The hardness or "shore" of the blade is 70 durometer and recommended for most of the types of screen printing you will be doing. Your supply package contains 4 squeegees cut to different lengths. You should use a squeegee roughly $\frac{1}{2}$ " to $\frac{3}{4}$ " over on each side of the image edges. Squeegee is available cut to order or you can purchase a length [72"] of squeegee that you can cut to your specific needs. It can be cut using any type of saw. Use a squeegee roughly $\frac{1}{2}$ " to $\frac{3}{4}$ " extending over each side of the squeegee. Squeegee is available cut to order or you can cut it to your specific needs. Squeegee can be cut with any type of power saw.

INKS

Plastisol is the ink of choice for garment printing. Plastisol is used in roughly 95% of all T-shirt printing. It is a thermoplastic, non-solvent ink that can only be cured (dried) through the application of heat. A real plus is that it will not dry in the screen as solvent based inks will. At the end of the day you can walk away from your inked screen, come back the next day and begin printing again. No having to clean the screen until the job is done. Plastisol can be used on 100% cotton, cotton/polyester blends and just about any textile product that can withstand 320 degrees fahrenheit for curing. The fabric must also be porous as plastisol does not have adhesive qualities for surfaces such as glass, plastic, wood, etc. It is a fabric ink. With the addition of a nylon bonding additive, plastisol can be printed on waterproofed jackets and shell nylon with excellent results.. A variety of additives and modifiers are available.

THE OPAQUE BOARD

The 13"x16" flat, black board in your supply package has two purposes. First it is used as a build up board for the application of capillary film. It is the same size as the sheets of film provided with your supply package. Use this board to lay your film on when applying it to your screen mesh. Second, the board is used when exposing your screen as a weight to ensure good contact between the screen mesh and the film positive. Lay the film positive on the exposure glass and place your coated screen on top of it. Place the board on top of the mesh. It also keeps light from escaping which could harden in parts of your image area.

PLATEN PAPER

Platen paper is an adhesive backed paper applied to your shirt boards to protect the surface as well as make your cleanup easier. Cut the platen paper large enough to tuck under the edges of your platen. Smooth the paper out so there are no wrinkles or bubbles and you're ready to apply the adhesive.

PLATEN ADHESIVE

The Platen Adhesive is a water based, non flammable liquid adhesive. It is applied to the shirt board using a roller applicator. Once applied, let dry so that it is tacky to the touch but does not come off on your finger. Place the spot cure unit over the adhesive for a minute to help it become tacky sooner.

INK CLEANER

Ink Zapper, a Soy based ink degrader, is supplied for the clean up of your screens, squeegees, etc. This non toxic, non flammable cleaner works very well for the removal of plastisol. Ink Zapper eliminates the need for mineral spirits or other harsh chemicals normally used for clean up.

EMULSION STRIPPER

The Stripper is used to reclaim your screens between jobs. When you're ^{through} with a print job you can remove the existing image with an application of The Stripper and have a fresh screen ready to coat in preparation for the next job. Be sure your screen is clean and free of any ink residue before reclaiming.

GHOST IMAGE REMOVER

Ghost Be Gone Haze Remover is used to get rid of persistent stains that appear on used screen meshes. These "ghosts" of previous images are the result of ink stains that occur simply through the process of repeated passes of the squeegee over the open areas of the image. The ink finds ways to hide amongst the threads and is almost impossible to remove with ink degraders and emulsion strippers alone. Normally these ghosts do not cause problems but a little haze remover goes a long ways to maintaining a clean, clear long lasting mesh.

SCRUB PADS AND HANDLE

Provided with your supply package are two scrub pads and a detachable handle. The White pad is used for general cleaning and reclaiming. The Red pad is more coarse and is used for the de hazing process. The handle is detachable and can be used with both pads.

SPLIT LINER SCREEN TAPE

The Blue and White tape included in your supply package is referred to as "Split Liner" screen tape. It is used to tape the inside edges of your screen frame before printing. This aids in the clean up process and also keeps ink from seeping under the edges where the screen frame and the mesh come together. The Blue portion of the tape has no adhesive and goes against the aluminum frame while the White, the adhesive part, adheres to the mesh.

BLOCKOUT

After you've exposed the screen, rinsed out the image area and dried it thoroughly you need to check for pinholes or other open areas in your emulsion area. These need to be blocked out so ink won't find its way through them and onto your garment. Blackout is applied with a brush or dabbed onto those spots on the print side of the screen. It is water soluble and rinses out when you reclaim your screen.

TEST SQUARES

A beginning supply of Pellon Test Squares is provided for you to test your print quality and registration before printing on the actual garment. These inexpensive cloth sheets are perfect for testing before the actual print run and can also be used as examples to show prospective customers.

PRE-PUNCHED MYLAR REGISTRATION SHEETS

These polyester carrier sheets are used in conjunction with the pin register feature found on your Precision Exposure Module. Locate the carrier onto the pins, position your first film positive and tape it to the carrier. Repeat the process with each of your color separations laying one on top of the other until all the colors are registered. Remove all but one, position your emulsified screen onto the exposure unit and you're ready to expose the first screen. Simply repeat the process for each color.