



Screen Fillers and Stencil Treatments

Screen Fillers

Xtend Red and **Green Fillers** are easily applied and removed, water soluble, flexible screen fillers. They have excellent solvent and abrasion resistance when used with UV and solvent-based inks, lacquers and varnishes.

- High viscosity - reduces seepage through mesh.
- Excellent spreading properties.
- Economical in use, may be thinned with water.
- For the artist working directly on the screen, drybrush, stippled and similar effects can be achieved and corrections made.

Filler WR is resistant to water-based inks and to Xtend Screen Cleaner Aqua. Filler WR can be removed using any of the other Xtend Screen Cleaner products (see information sheet 'Xtend Screen Cleaners').

- Highly flexible.
- Excellent water and abrasion resistance.
- Suitable for masking, spotting and re-touching water resistant stencils
- Highly resistant to water-based UV, water-based textile and water-based graphic inks.

Universal Filler is a two-pack water-based product, which is resistant to all ink systems and can be used for edge masking and spotting out stencils.

- Resistant to solvent, UV, water-based UV, water-based graphic, plastisol and water-based textile inks.
- Very low odour.
- Removable with the stencil using one of the Xtend Strip decoating products.

Stencil Treatments

Stencil treatments are used to improve the durability of Dirasol Stencils when used for exceptionally long print runs or for the production of library stencils. Finished stencils can be treated with Dirasol Super Hardener for extra water resistance or with Sericure for improved abrasion resistance and the maximum resistance to solvent and water.

Sericure - Stencil Waterproofing Agent

- Maximum durability to all ink systems.
- Improved mechanical and chemical durability.
- Stencils cannot be decoated.

Dirasol Super Hardener - Post Hardening Solution

- Enhances water resistance of all Dirasol emulsions.
- Easy to use 50/50 mixing ratio.
- Can be used on nylon or polyester mesh.
- Non corrosive.
- No fogging of unexposed screens when dried together in the same cabinet.
- Stencils can be decoated.

Instructions for Use

Green/Red Filler and Filler WR:

To mask open mesh area between stencil and frame:

1. Pour a small quantity of filler onto the outside of the screen and spread across the open area with a stiff piece of card or a plastic spatula.
2. Remove any surplus filler from the underside which may have seeped through.
3. Allow to dry - this may be accelerated by using a warm air fan.
4. With coarse meshes a second application may be necessary on the underside of the mesh to ensure complete sealing.

For spotting out or repairs to stencils:

1. Examine new stencils and masked screens for pinholes. These may be spotted out with a brush. Filler WR is easily washed out of brushes using 'Xtend Screen Cleaner or' or 'Screen Wash Universal'. Green/Red Filler only requires water.
2. If a stencil develops a small hole during a print run, thoroughly clean away all ink from the area and spot out with a brush. Drying can be accelerated using warm air.

To remove Green/Red Filler:

1. Thoroughly clean screen of ink residue and allow solvent to evaporate.
2. Wash away filler with cold water or remove with a high pressure stripper.

To remove Filler WR:

1. Apply 'Xtend Screen Cleaner' to both sides of the screen using a rag or brush, rubbing until all residues of ink and filler are completely removed.
2. Thoroughly rinse with water before decoating the stencil.

Remove the stencil with the appropriate Xtend reclaiming product. See the 'Stencil Decoating and Mesh Stain Removal Chemicals' Product Information Sheet.

To avoid the possibility of mesh blockage, Filler WR filler should be completely removed before applying stencil decoating chemicals.

IMPORTANT: Filler WR will not resist Screen Wash Universal or other similar wash-up solvents. These should not be used unless the screen is being washed up prior to decoating.

During the print run and also after the run where stencils are to be reused, inks may be washed up with either water (for water-based UV and water-based textile inks) or Screen Cleaner Aqua (for water-based jet drying graphic inks).

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Instructions for Use Universal Filler

Add the activator to the base and mix thoroughly. Leave to de-gas before use. For optimum durability the mixed filler should be left overnight before using. Once mixed the filler has a shelf-life of two months although it may thicken slightly with age. Although still advisable to stir before use, for shorter print runs the filler can be used without adding activator. This will also make it easier to decoat. For masking open mesh area between stencil and frame.

1. Pour a small quantity of Universal Filler onto the substrate side of the screen and spread with a stiff piece of card or plastic. Coarse mesh may require a second application.
2. Universal filler can be air dried but its durability will be optimised by drying in warm air (40°C). Care should be taken to ensure filler is not accidentally splashed into open areas of the stencil. However, if this does happen, it can be removed with water when wet or Xtend Strip when dried.

For spotting out or repairs to stencil

1. Examine new stencils for pin-holes and spot out with a brush containing Universal Filler. Brushes can be washed out in water but if filler is allowed to dry in the brush a solution of Stencilstrip will be needed.
2. If a stencil develops a small hole during the print run, thoroughly clean away all ink from the area and spot out using a brush.

The filler will be decoated with the stencil emulsion using one of the Xtend stencil removal products.

Instructions for Use Sericure

1. Apply Sericure to both sides of the dry stencil using a soft brush or sponge.
2. Allow stencil to air dry horizontally at room temperature.
3. Finish drying in a hot air cupboard at 60°C for at least ten minutes. Longer hot air drying will further improve the resistance of the stencil.

Stencils treated with Sericure must be considered non-decoatable. To improve stencil decoating, Sericure can be diluted 50/50 with water prior to use. However, this may compromise emulsion durability.

Instructions for Use Dirasol Super Hardener

1. Mix Dirasol Super Hardener, Parts A and B, in equal proportions by weight or volume. Once mixed, the solution has a shelf-life of approximately 2 weeks.
2. Apply Dirasol Super Hardener to both sides of the dry stencil using a soft brush or sponge.
3. For maximum stencil durability, allow treated stencil to stand overnight;
- or -
Leave to stand at room temperature for 1 hour and then place in front of hot fans (40-50°C) for a further hour.

Stencils treated with Super Hardener can be difficult to decoat, but can be achieved using Xtend Strip in conjunction with a high pressure water gun.

Standard Packing

Green Filler:

FIQ41 1 and 5 ltr containers

Red Filler:

FIR67 1 and 5 ltr containers

Filler WR (Water Resistant Screen Filler):

WRG20 5 ltr containers

WRG20 1 ltr containers

Universal Filler:

FISW1/6 6 x filler and activator to make 6 litres

FISW1/1 Filler and activator to make 1 litre

Sericure:

SCK81/1 1 ltr container

SCK81/5 5 ltr container

Dirasol Super Hardener:

JHH76/5 5 ltr container - Part A

JHH77/5 5 ltr container - Part B

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Storage

Always replace lids after use and store in a cool place.

Fujifilm Sericol UK Limited

- Has certification to the International Environmental Standard, ISO 14001.
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

Green/Red Filler, Filler WR, Universal Filler, Sericure and Dirasol Super Hardener :

- Are formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC.
- Has a flashpoint greater than 55°C and is therefore not classified as a 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of these products is given in the appropriate Sericol Safety Data Sheets, available upon request.

Environmental Information

Green/Red Filler, Filler WR, Universal Filler, Sericure and Dirasol Super Hardener:

- Do not contain ozone depleting chemicals as described in the Montreal Convention.

Green/Red Fillers:

- Are water-based and can therefore be considered to have less impact on the environment, when compared with solvent-based products.
- Are formulated free from aromatic hydrocarbons.

The information and recommendations contained in this Product Information Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information Sheet out of date and users are requested to ensure that they follow current recommendations.

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