



Plastisol Additives – Factsheet (Extract courtesy of Union Inks)

PLPF-9111 PLASTIPUFF ADDITIVE:

Plastipuff Additive can be added to regular plastisol to create puff effects. It works best with the PLUS SERIES. It does not work well in high opacity inks (less durability). Because puff ink is generally very opaque, it will become opaque on dark shirts even if added to PLUS. Plastipuff Additive should be added to colours at a rate of 1 part of additive to 6 parts of Plastisol by volume. When using with white use a ratio of 1 part of Additive to 4 parts of White. This mixture will now work just like Plastipuff Ink. Consult the Union Ink Technical Data Sheet on Plastipuff Ink.

THICKENING PASTE: PLUS-9114 PLASTISOL THICKENER

This easy-to-use additive is designed to assist the printer who may have added too much reducer to a plastisol and would like to bring back the viscosity of the ink. In addition, the thickener can be added to those inks that were previously mixed with Union Ink's NYLOBOND agent (provided it is done within the normal 8 hour pot life of the NYLOBOND mixture). This will enable the plastisols to be used in other applications.

The recommended range of Plastisol Thickener to add is 1-5% by weight. Due to the formulation of the Thickener, it can be easily stirred directly into the plastisol by hand.

EXTENDER BASE: PLUS-9090

PLUS-9090 is basically ink that contains certain inert or opacifying materials with no pigment. It is clear (creamy colour) ink base that can be added to plastisol to extend the ink and get more volume out of the ink. Since Extender Base is a balanced ink - any amount can be added to plastisol. The more Extender Base added the less opaque the ink will be.

Although Extender Base will make an ink less opaque, it is generally not used to specifically make an ink more transparent. For that purpose see TRANSPARENT BASE. It is designed more as a "bulking" agent and will basically provide more mileage from an ink at a lower cost because Extender Base is less expensive than pigment ink. If used to make an ink more transparent to print colour-over-colour, the secondary colour achieved may not be clean (because the Extender Base is milky in colour).

Generally, Extender Base will not reduce the viscosity of an ink.

VISCOSITY REDUCER: PLUS-9000

PLUS-9000 is a special "balanced" reducer that is used to thin the viscosity of plastisol inks. It contains both resin and plasticizer which helps maintain the balance of plastisol when reducer is added. It should be added in small quantities as needed. Generally for short print runs it is not necessary to reduce the entire container of ink. Just the top portion can be reduced.

Because plastisol inks will tend to stiffen slightly when sitting, they should be stirred BEFORE THINNING to break down this "false body" to see how thin the ink really is. Plus-9000 contains a special DETACKIFIER. Detackifiers help inks prints better when printing wet-on-wet because less ink will stick to the bottom of the screens. Generally, no more than 10% to 15% reducer should be added to the plastisol. Reducing plastisol will also diminish the inks opacity.

SOFT HAND EXTENDER BASE Plastisol Modifier & Base

APPLICATION

- **ADD TO STANDARD PLASTISOLS FOR SOFTER HAND & SHORTER BODY**
- **ENABLES PRINTING THROUGH FINER MESH COUNTS**
- **BRIGHTENS PLASTISOL COLOR SHADES**
- **TRANSPARENT BASE FOR MIXING PLASTISOL COLORS**

FEATURES

- **EXTREMELY SOFT HAND**
- **EASILY MIXED**

GENERAL INFORMATION:

PADS-9095 Soft Hand Plastisol Base is a clear, press-ready plastisol which can be used either as a soft-hand additive or as a base from which to produce additional colour shades.

AS A PLASTISOL ADDITIVE:

As an additive, PADS-9095 is used to soften the feel of the finished plastisol print, as well as to shorten the body (reduce the "stringy" characteristics) of the ink on the press. Adding PADS-9095 to a plastisol will allow printing through finer meshes and therefore reduce the deposit of ink on the garment. This will help produce softer prints.

The recommended amount of PADS-9095 to add is between 20-25% by weight, although good results have been reported with additions as high as 50% when printing on white or light coloured garments.

Note: Adding PADS-9095 to a plastisol will reduce the opacity level of the finished print, and is not recommended as an additive to low-bleed inks designed to block dye migration on dark cotton/polyester fabrics.

AS A PLASTISOL BASE:

PADS-9095 can be used as a transparent plastisol base to produce various colour shades with the addition of plastisol toners, such as Union Ink's TOPL Series plastisol pigment dispersions.

ALWAYS TEST BEFORE USING IN PRODUCTION