

INK ADDITIVES

Although all Stehlin Hostag inks are formulated to give optimum press performance, occasionally, due to particularly difficult applications problems can occur. For these reasons we have developed a range of ink additives which can be easily mixed into the inks, on press, to eliminate specific problem areas. However, the details concerning usage and, more importantly, dosage levels required, need to be carefully adhered to.

a) **Cobalt Driers 40B5000 (supplied in 1kg container)**

A specific blend of driers to accelerate the drying process on difficult surfaces. The oxidation properties of the ink will be enhanced, although it is important to note that with very low or non-absorbent materials it is necessary to use specially formulated inks such as Oxy-Dri. Over addition of driers will have a negative affect on the drying of the ink and cause press instability. The recommended dosage is 1-2%.

b) **Thixoprint 10T0256 (supplied in 1kg vac pack tin)**

A gelled reducing agent, which is easily mixed into the ink and rapidly reduces the tack without having an adverse affect on the viscosity of the ink. The recommended dosage is 3 to 5%. Over dosing will result in retarded drying and reduced gloss of the ink.

c) **Gel Reducer G33 (supplied in 1kg tubs)**

A mineral oil free gelled tack reducer, which has a higher structure than Thixoprint and will maintain a higher viscosity when added to ink. The recommended addition is 3 to 5%. Over dosing will result in retarded drying and reduced gloss of the ink. Suitable for sheetfed and heatset inks.

d) **Liquid Reducer 340 413/R (supplied in 1lt container)**

A reducing oil, which reduces the tack and viscosity of the ink. Liquid Reducer will reduce the tack quickly, but will also have a noticeable affect on the ink viscosity. For this reason the dosage should be limited to 1 – 3 %.

e) **Grafo Drier 10T5001 (supplied in 1kg container)**

Specially formulated drier that is inert until exposed to moisture, which acts as a catalyst to initiate a very effective drying cycle. When the ink is exposed to the dampening solution on press, there is an element of ink/water emulsification, which has to take place in order for the process of lithography to take place. This process does have a detrimental affect on the drying times of the ink, Grafo drier helps to minimise this affect. As Grafo Drier is a paste, we recommend a dosage of 3% without having any detrimental affects on the ink performance.

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Cont/d... (sheet two)

f) **UV Gel Reducer 40U1002 (supplied in 1kg container)**

A structured tack reducing agent specifically for UV inks. It is imperative that UV inks maintain the sharpest dot reproduction, so an addition of gelled reducer should be between 2 and 4%.

g) **Linseed Oil 1405/1 (supplied in 1lt container)**

Our inks are formulated using maximum levels of naturally occurring raw materials and Linseed Oil is an ideal additive for that reason. To reduce the viscosity and tack of our oil based inks, we recommend a 1 to 3% addition of Linseed Oil. Over-dosing will have a detrimental affect on the ink.