

# Display 3700

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## **Type**

Quick drying, satin gloss ink with a mild odour. Developed to print on polystyrene. Suitable for machine and hand printing.

## **Application**

Can be used on all types of paper, polystyrene, rigid PVC (when mixed with Thinner 71) and other types of hard plastics.

## **General**

Despite its quick drying properties, the Display 3700 ink will not dry into the mesh. Even during longer breaks, the screen need not be cleaned. It is sufficient to leave the screen for 20-30 with a layer of fresh ink on top before starting up the printing process again. The ink will print beautifully sharp and even prints and has a mild odor.

## **Drying**

The Vipro Display 3700 inks dry by evaporation of the solvents. When air dried, the ink is hand dry after 5-10 minutes and can be stacked after 0.5 - 1 hour. When tunnel dried, high production speeds can be realised at low drying temperatures, also when printing double-sided.

When tunnel dried, the drying time is dependent on the tunnel temperature, fineness of the gauze, type of thinner, qualities of the material to be printed etc. The optimum proportion of temperature-conveyor belt speed must be found through experience. A guide-line is: 15-40 seconds in a drying tunnel with a good air circulation at 35 C°.

It is important that the cooling section of the tunnel works well and that the printed material is not stacked up while it is warm. This is especially important for polystyrene, as this is an excellent heat-isolator, possibly causing the stack to remain warm for a long amount of time, which can cause sticking or setting-off in the stack.

## **Adhesion**

The ink adheres well to the materials mentioned under 'application'. Adhesion can be judged after approximately 12 hours.

## **Opacity**

The Display 3700 inks have a high opacity.

## **Light fastness and weather resistance**

All colours have a good light fastness when printed in fulltone. The thicker the layer of ink, the better the light fastness. Light fastness decreases when ink is extended using white or clear.

The inks are weather resistant. This resistance can be further improved by using Display 3749 Clear as a varnish. Silver, rich gold and pale gold should be protected using the clear ink by default.

## **Elasticity**

The Vipro Display 3700 inks are elastic and can be used for deep-drawing. Always test beforehand.

## **Thinners**

Before thinning the ink, stir the ink well. For machine printing, add 25-30% of **Thinner 51**. For hand printing or printing of fine details, or printing in high temperatures, use 25-30% of **Retarder 7** or **Retarder 4** (extra slow). When printing hard PVC, add 25-30% of **Thinner 71** or **Retarder 8**. Adding too little of thinner/retarder can be detrimental to the printing and drying qualities of the ink.

## **Extension**

To lower the intensity of colours or to obtain half-transparent effects, Display 3749 Clear can be added in every proportion. This will negatively affect light fastness of the ink, depending on the amount added.

## **Halftone printing**

When printing in half tone or printing fine lines, 5-35% 3750 base tix can be added to the ink. Color intensity, opacity, gloss and light fastness will decrease.

For printing in halftone, 3751 yellow tix, 3752 cyan tix, 3753 magenta tix and 3754 black tix are available. These colours have a good light fastness. For adjusting the intensity of the color, 3750 base tix can be added in every proportion. Depending on printing speed, mesh size and size of halftone dots, add 25-30% of thinner. If desired, thinner can be replaced by an equal amount of retarder.

## **Silver, Pale en Rich Gold**

The gold and silver inks have a limited potlife in mixed form. Pastes are available to mix your own inks according to your needs. See Visprox Additives for more information on the gold and silver pastes. These inks always need to be coated with clear when used outside.

## **Color mixing**

The colormatic mixing system consists of the colors A to M and clear, with accurate recipes to mix PANTONE® colors, Visprox colors or colors from other systems. (When printed on a white surface with a 100-40(T) mesh).

## **Mesh**

All types of mesh can be used. Best results will be achieved using 77-140 T mesh.

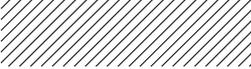
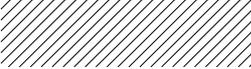
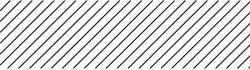
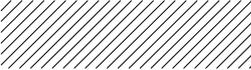
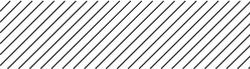
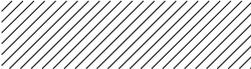
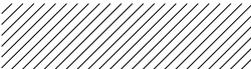
## **Mesh cleaning**

Mesh should be cleaned immediately after printing. We recommend using Screenwash LOD or Screenwash GA. It is possible to use thinners that are compatible with the Display 3700series, though they are less effective.

## **Test prints**

Please, continually make test prints before moving on to printing the complete order.

This technical information is meant to be a guideline. Even though the information is given after detailed examination and to the best of our knowledge, AGA Color Solutions Europe b.v. can take no responsibility for it.

	01 White L		34 Orange Red (± pms Bright red C)		46-1 Pale Gold (± pms 871)
	02 Black M		35 Fashion Pink (± pms 674C)		46-2 Rich Gold (± pms 10125C)
	04 Primrose Yellow (± pms 101C)		37 Carnaby Violet (± pms 2627C)		47 Silver (± pms 877C)
	06 Medium Yellow (± pms Yellow C)		38 Brilliant Green (± pms 340C)		Sparkling Silver (green pms referentie)
	07 Bright Orange (± pms 1655C)		39 Spring Green (± pms 2270C)		Pearl Base (± pms 10101C)
	08 Fire Red (± pms 485C)		41 Pale Red (± pms 185C)		Bronze paste (± pms 873C)
	09 Geranium (± pms 7621C)		43 French Blue (± pms 2145C)		45 Clear Flat (Mat)
	10 Bright Red (± pms 2035C)		88 Ultra blue (± pms 2728C)		49 Clear
	11 Bright Cerise (± pms 238C)		A Lemon Yellow (± pms 012C)		50 Base Tix
	12 Violet (± pms 2685C)		B Golden Yellow (± pms 7548C)		Obliterating Grey (Tussendrukgrijs)
	13 Paris Green (± pms 2420C)		C Orange (± pms 021C)		05 Blackboard Black
	14 Dark Green (± pms 3308C)		D Red (± pms 199C)		
	15 Sky Blue (± pms 2195C)		E Carmine (± pms 200C)		
	16 Magenta (± pms 2612C)		F Pink (± pms 214C)		
	18 Medium Green (± pms 7726C)		G Bright Violet (± pms 274C)		
	19 Medium blue (± pms 2756C)		H Permanent Blue (± pms 2945C)		
	20 Crimson (± pms 202C)		K permanent Green (± pms 2245C)		
	22 Brilliant Blue (± pms 2738C)		51 Yellow Tix (pms Process Yellow)		
	23 Mono Blue (± pms 2194C)		52 Cyan Tix (pms Process Cyan)		
	27 Blue (± pms 301C)		53 Magenta Tix (pms Process Magenta)		
	29 Azure Blue (± pms 2388C)		54 Black Tix (pms Process Black)		
	33 Super Orange (± pms 2018)		55 Rubine Red Tix (± pms Rubine Red C)		