

GP 5500

Type

Highly glossy PVC ink with only a slight odor. Suitable for hand and pad printing.

Application

On medium soft and hard PVC materials, most types of self-adhesive vinyl, vinyl coated polyester, polyacrylates (perspex, plexiglass etc. and many other synthetic materials and synthetic mixtures. Not suitable for very soft PVC.

General

Due to their slow drying time, the GP 5500 inks are pre-eminently appropriate for hand printing. Drying in into the mesh hardly occurs, which makes the ink easy to use for less experienced printers.

Drying

The GP 5500 inks dry by evaporation of the solvents. When air dried, the ink is hand dry after about one hour, dependent on the thinner added, type of mesh, surrounding temperature, ventilation etc.

A high percentage of plasticizer in the printed material might considerably influence the drying time. In soft, weak PVC types, the solvents can penetrate deeply into the material and remain there, so that an apparent dry ink film sticks together again in the pile (also with polystyrene and other hard synthetic materials you have to be very careful). Therefore it is necessary to let the ink dry sufficiently (6-8 hours), sometimes even longer, before piling up. If a longer drying time poses a problem, use the Multiplast 300 series instead.

Adhesion and opacity

Adheres well to materials mentioned under 'application'. Because types of plastic can be difficult to distinguish, please test the ink before printing orders. Judgment of adhesion is possible after approx. 12 hour. This ink series has a high opacity.

Light fastness and weather resistance

The light fastness of all colours is good in fulltone. The thicker the ink layer, the better the lightfastness. Extending with white or clear decreases the lightfastness. GP 5500 inks have a good weather resistance..

Elasticity

The GP 5500 inks are sufficiently elastic and are suitable for deep-drawing. For printing of double sided stickers, where multiple layers have to be printed, we recommend using the Multiplast 300 series.

Ink usage

Diluted with 20% thinner:
100-40 (T) mesh: ca. 45-50 m²/ltr
120-34 (T) mesh: ca. 50-60 m²/ltr

Thinners

Stir ink before diluting. For normal use, dilute with approx. 20% **Thinner 13**. In case of high surrounding temperatures or printing of fine details, use 20-25% **Retarder 8**. Can be sprayed when diluted with 40-80% **Thinner 11** and applied with a brush when diluted with 20-50% **Thinner 13**. Adding too little of thinner or retarder can be detrimental to drying and printing qualities of the ink.

Extension

To lower the intensity of the colours (or to obtain semi-transparent effects), GP 5549 Clearcan be added in every proportion. However, this reduces the lightfastness, depending on the percentage added.

Mixing colors

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).

Halftone printing

For printing of very fine lines or printing in halftone, GP 5550 base tix can be added (5-35%). Decreases color intensity, opacity, gloss and light fastness.

Mattifying

The GP 5500 gloss can be reduced by adding Visprox mattifying paste. Depending on the desired result, add 10-30% of the paste.

Varnish

The GP 5500 gloss can be increased by using GP 5549 Clear as a varnish. Also suitable to use to increase weather resistance. GP 5545 Clear Flat can be used as a mattifying varnish.

Silver, Pale en Rich Gold

Silver, rich en pale gold need to be varnished with Clear base when used outside to increase weather resistance. In mixed form, the gold and silver colors have a limited potlife. However, pastes are available (See **Visprox Additives**) to mix your own inks according to your needs.

Halftone printing

For printing in halftone, GP 5551 yellow tix. GP 5552 cyan tix, GP 5553 magenta tix and GP 5554 black tix are available. These colours have a good light fastness. GP 5549 base tix can be added in every proportion to adjust color intensity.

Mesh

All types of mesh can be used. Meshes between 77-55 (T) and 120-34(T) give the best results.

Mesh cleaning

Mesh needs to be cleaned immediately after printing, use **Screenwash LOD** or **Screenwash GA**.

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, EO		34 Orange Red (± pms Bright red C)		46-1 Pale Gold (± pms 871)
	02 Black M, EO		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 (no pms reference)
	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)		