



# FarbaProp

**1 / 2 component screen/pad/spray /rotary pad ink/paint.**

**Satin gloss, good opacity, very flexible, quick drying.**

**FIELD OF APPLICATION:**

**Substrates**

FarbaProp is particularly suited for printing on to:  
Pre-treated or untreated polypropylene(PP)

Substrate may differ in their chemical composition and the methods of manufacture. Hence preliminary test should be performed to determine the suitability.

Some polypropylenes may have residues on surface which can have negative effect on adhesion hence please check if printing without pre cleaning is possible.  
Please check all parameters before start of production.

**Application Field**

FarbaProp is mainly used for **screen printing** onto polypropylene plastics

FarbaProp can also be used for **pad printing** .

Can also be used for **spray/rotary printing**.

**Thermoforming:** These inks can be thermoformed upto 500% without cracking . Please test before use.

**Spray:** Use any standard gun with nozzle of 0.8mm-1.2 mm with very fast drying thinners.  
Pre-treatment of the surface is not necessary in most cases. But primer pre treatment improves adhesion significantly.

**CHARACTERISTICS:**

This glossy, quick drying screen-printing ink exhibits good mechanical and chemical resistance.

FarbaProp are light fast, weather resistant and guarantee high opacity.

**Drying**

The drying conditions can be adjusted with auxiliaries according to the intended use/application.

Drying time and conditions accordingly are:  
Screen printing: Drying at 20 C for 10-15 minutes. Can be stacked after tunnel drying at 60 c within 40-60 seconds.

Pad printing: touch/grip dry at 20 C within 4-5 minutes. At temp greater than 25 C drying in the cliché may happen. Not all parts of image area will be transferred on to the substrate.

**RANGE OF COLOURS**

The basic ink mixing system consists of 12 basic shades and may be used to produce a wide range of shades of standard colour systems PANTONE, HKS, RAL, NCS.

FarbaProp colour series:

Prop series		
BASIC COLOR	SHADES	CODE
Yellow	Lemon	PS 200
	Medium	PS 201
	Yellow Orange	PS 202
Red	Magenta	PS 302
	Bright	PS 303
	Vermilion	PS 304
Dark Brown		PS 400
Blue	Ultra Marine	PS 500
	Deep	PS 503
	Royal	PS 504
Green	Grass	PS 601
	Brilliant	PS 602
White	Standard	PS 100
	Opaque	PS 101
Black	Standard	PS 900
	Opaque	PS 901

All shades are interred mixable They form the basis for calculations of individual colour formulations. Also, they are the basis for shades of common colour reference systems HKS,PANTONE and RAL,NCS.



## RESISTANCE

### Fade

Pigments of excellent fade resistance are used for FarbaProp  
All basic shades are suited for an outdoor use of up to two years.

A coat of an appropriate binder will stabilize outdoor prints further. The pigments used are resistant to plasticizers and solvents.

### Stress

After thorough drying, ink has impeccable stability and excellent flexibility. The ink becomes stackable.  
The ink has a good chemical and mechanical resistance.  
If higher resistance is required, one of our 2 component ink systems should be used including appropriate pre-treatment of substrate.

## ADDITIVES

### Thinner:

Generally fast thinners are used in rotary pad printing and spray coating. Medium thinners are used in hot and humid conditions

Retarders are used to slow down the production speed to below 15 parts per minute. General use with standard thinners.

Thinner is added to the screen-printing ink to adjust the printing viscosity.

Following additives are available:

Thinner, standard (addition 10 - 20%)	DLT 142
Thinner, fast (addition 10 - 20%)	DLT 132

For slow printing sequences and fine motifs, it may be necessary to add retarder to the thinner.

Retarder (max. addition 5%)	DLT 130
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### Levelling Agent:

The levelling of the ink surface can be optimised using levelling agent. It can be used to rectify flow problems on critical substrates.

Excessive amount may reduce over printability.

Levelling Agent (max. add.: 0,5 - 1 %)	EQS 223
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### Cleaning Agent:

In some cases, it may be advisable to remove dust and other impurities off the PP surface prior to printing by means of the cleaning liquid in order to enhance the adhesion properties of the ink.

Cleaner	RFR 241
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Clichés, squeegees and so on can be cleaned with the FARBATECH Universal cleaner. It must be noted that the pad does not come into contact with solvents. For the cleaning of the pad please see to the application references of the pad manufacturers.

Universal Cleaner	RFR 257
Cleaner for cleaning equipment	RFR 263
Bio degradable Cleaner	RFR 197

## PRINTING PARAMETERS:

### Screen Printing:

All types of commercially available polyester fabrics (1:1 plain weave quality) and solvent-resistant stencils can be used. Fabrics- 120/140/160 lines per inch.

### Pad Printing

All commercially available clichés made of ceramic, photopolymer, thin steel, and chemically hardened steel (10 mm) can be used. The recommended cliché depth is 18-25 µm.

As per our experience, all common printing pads consisting of materials cross-linked by condensation or addition can be used.

Depending on type and usage of the machine, it is to accordingly adjust type and amount of the dilutant used.

### SHELF LIFE:

Shelf life depends very much on the formula/ reactivity of the ink system as well as the storage temperature.  
It is 2 years for an unopened ink container if stored in a dark room at a temperature of 15-25 °C. At higher storage temperatures the shelf life will be reduced.

### PRECAUTIONS:

For further information on the safety, storage and environmental aspects concerning these products please refer to Safety Data Sheet

Addition Technical information can be obtained from our Product safety department.

### Marketed By:

**SPINKS WORLD**  
**Plot No 135, Pace city I,**  
**Sector 37, Gurugram**  
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