

FarbaMax Pro



Screen/Pad printing ink universally applicable on multiple substrates.

High gloss, high opacity, quick drying, good resistance to petrol, weather-resistance, outdoor applicable, flexible

Field of Application

Substrates

Versatile one or two component inks used in various printing methods like screen and pad painting.

Appropriate for wide variety of applications, especially suitable for:

- › Rigid PVC
- › PET/PETG
- › ABS PBT
- › Pretreated polyethylene (PE)
- › Pretreated polypropylene (PP)
- › SAN
- › Metals
- › Nylons (PA)
- › PBT
- › Thermosetting plastics
- › Wood (Raw or Coated)
- › Varnished surfaces
- › Polystyrene
- › Flexible PVC (limited)*

Since all the printed substrates mentioned may be different in printability however within an individual type, preliminary trials are essential to determine the suitability for the intended use.

Application Process

FarbaMax Pro is a multi-application ink used in pad/screen printing. FarbaMax Pro is primarily used to print on packaging substrates made of polyethylene, polypropylene, and rigid PVC. Polyethylene and polypropylene substrates should be pre-treated by flaming or corona discharge before printing. For good adhesion to the substrate, a surface tension of ~45 mN/m is recommended. Polypropylene can also be pre-cleaned with our colorless APT 171.

Pad Printing: Magnetic, ceramic and carbide cups can be used. Excellent pad printing ink as the pigments are very small. Use medium or standard thinners with the ink.

*Please conduct test trials to confirm suitability of application.

Screen Printing: Can be used in high-speed printing machines both on flat bed and rotary. Up to 2000 cycles/ hour. Use retarders to control speed. Up to 140-160 mesh can be used in most applications.

Characteristics

The ink should be stirred well before printing and during production. Prone to thixotropy upon prolonged storage.

High Gloss but can be modified as Matt ink. 70-90 units at 60° angle.

As 2-component ink

Based on the substrate and the need, catalyst can be added to the ink before printing.

As 2-component ink

Based on the substrate and the need, Catalyst can be added to the ink before printing.

Always add catalyst (hardener) in 90:10 ratio by weight, 90 parts being ink and 10 parts of catalyst. Temperature should not go below 15°C during processing and curing. Higher concentration of catalyst can be tested.

After mixing the above, add dilutant (thinner) up to 15% to start off with, increasing as per requirement

Note: After mixing, let the ink mixture settle for 15 minutes before start of production. This is pre reaction time.

Pot Life

Pot life may depend upon temperature for the ink/catalyst mixture.

20°C – 24°C approx. 10-12 hours

25°C – 30°C less than 8 hours

Higher temperatures will reduce pot life.

Humidity: Try to maintain humidity between 50% - 70 %. Lower humidity may result in static charge and higher may result in curing of ink. Catalyst (hardeners) are very sensitive to humidity.

Drying

Quick drying at 20°C air temperature. Can achieve over printability within 15- 20 minutes. Adding the catalyst will increase the drying time.

These stats may vary according to the substrate used, the thickness of ink film, drying conditions and the auxiliaries used.











Fade Resistance

Excellent fade resistant pigments are used for FarbaMax Pro. Hence all the basic shades are suitable for outdoor application for up to 3 years.

A coat of printing varnish TX 001 (overprint lacquer) and TX 010 (overprint lacquer (UV absorber)) onto the surface will extend the max outdoor life to 4-5 years.

Range

Basic Shades

Max Pro series			
BASIC COLOR	SHADES	CODE	COLOR
Yellow	Lemon	TX 200	
	Medium Yellow	TX 201	
Red	Scarlet	TX 300	
	Carmine	TX 301	
	Bright	TX 303	
Blue	Ultra Marine	TX 500	
	Brilliant	TX 502	
Green	Grass	TX 601	
White	Standard	TX 100	
Black	Standard	TX 900	

Clear Base: TX001

All shades are intermixable. Mixing with other ink types must be avoided.

All basic shades are included in our FarbaTech color cards. They are basis for the calculation of individual color matching formulas, as well as for shades of the common color reference systems HKS®, PANTONE®, RAL* and NCS*.

Auxiliaries

Dilutant

Prior to application, the required printing viscosity should be achieved by adding of dilutant.

Addition 25-30%

Dilutant, slow	DLT 150
Dilutant, standard	DLT 132
Dilutant, mild	DLT 152
Dilutant, fast	DLT 140
Dilutant, fast	DLT 138

For screen printing, following dilutant and retarder is recommended:

Dilutant, slow	(addition 25-35%)	DLT 150
Retarder	(addition 15-25%)	DLT 124

Catalyst

Catalyst, standard 10%	(addition up to 20%)	CAT 135
------------------------	----------------------	---------

Catalyst is humidity sensitive and should be stored in a sealed container always. Catalyst is required for improved resistance and adhesion.

Catalyst must be added to the ink shortly before use and stirred homogeneously. The mixture ink/Catalyst can't be stored and must be processed within pot life.

Cleaners

Following cleaners can be used for cleaning the cliches/ screen/ squeegee and other working equipment.

Universal cleaner	RFR 251
Biodegradable cleaner	RFR 197

Levelling Agent

Levelling of the ink surface can be achieved through the following levelling agent.

Levelling agent	(max. addition 0.5-1%)	EQS 223
-----------------	------------------------	---------

Shelf Life

Shelf life depends upon the composition and reactivity of the ink system as well as the temperature at which the ink is stored. An unopened ink container if stored in a dark room at a temperature of 15 - 25 °C has a shelf life of 2 years.

Precaution:

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



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

Marketed By:

SPINKS WORLD

Plot No. 135, Pace City I,

Sector 37, Gurugram.

Haryana-122001 (INDIA)

+91921062662

Email: info@spinksworld.com