

# FarbaMax

**Screen/Pad/Spray printing ink universally applicable for multiple substrates.**

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

## Field of Application

### Substrates

Versatile one or two component inks used in various printing methods like screen, pad, rotary, spray and thermoforming.

Appropriate for wide variety of applications, especially suitable for:

- > Rigid PVC
- > Flexible PVC (moulded or foils)
- > ABS
- > Acrylic (PMMA)
- > Polycarbonate (PC)
- > Wood (Raw or Coated)
- > SAN
- > Nylons (PA), GFPA
- > PBT
- > PET/PETG
- > PS
- > Coated substrates
- > Thermoformable sheet

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

### Application Process

FarbaMAX is multi-application ink used in spray/pad/screen printing.

**Pad Printing:** Both magnetic, ceramic, carbide cups can be used. Excellent pad printing ink as the pigment are very small. Use medium or standard thinners with the ink.

**Screen Printing:** Can be used on 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 for most applications.

**Spray Printing:** All guns standard or HPLV (high pressure low volume) can be used.

Nozzle diameters 0.8, 1, 1.2 mm. Use very fast drying thinners.

**Thermoforming:** These inks are screen or sprayed onto PET, PVC, or metallised sheets. Up to 500% expansion Without cracking is expected.

### Characteristics

The ink should be stirred well before printing and also 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.

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.

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

**Note:** After mixing, the ink mixture may feel to be heated. This is natural and expected. Please let it settle for 15 minutes before start of production.

#### Pre-reaction time

The ink/catalyst mixture should be allowed to pre react for 15-20 minutes.

#### Pot Life

Pot life may depend on 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 5- 10 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 resistance pigments are used for FarbaMax. Hence all the basic shades are suitable for outdoor application for up to 3 years .

A coat of printing varnish TX 001 onto the surface will extend the max outdoor life to 4-5 years.

## Range

### Basic Shades

Max series			
BASIC COLOR	SHADES	CODE	COLOR
Yellow	Lemon	TX 200	
	Medium Yellow	TX 201	
	Yellow Orange	TX 202	
	Light Yellow	TX 203	
Red	Scarlet	TX 300	
	Carmine	TX 301	
	Magenta	TX 302	
	Bright	TX 303	
	Vermilion	TX 304	
Dark Brown	Purple	TX 305	
	Dark Brown	TX 400	
Blue	Ultra Marine	TX 500	
	Turquoise	TX 501	
	Brilliant	TX 502	
	Deep	TX 503	
	Royal	TX 504	
Green	Yellow	TX 600	
	Grass	TX 601	
	Brilliant	TX 602	
White	Standard	TX 100	
	Opaque	TX 101	
Black	Standard	TX 900	
	Opaque	TX 901	

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

All basic shades are included in our FarbaTech colour cards.

They are basis for the calculation of individual colour matching formulas, as well as for shades of the common colour reference systems HKS®, PANTONE®, and RAL\*.

## Auxiliaries

### Dilutant

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

Addition 25-30%

Dilutant, slow	DLT 150
Dilutant, standard	DLT 148
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	(addition upto 20%)	CAT 135
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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 cant be stored and must be processed within pot life.

### Cleaners

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

Universal cleaner	RFR 251
Bio degradable 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
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## Shelf Life

Shelf life depends on 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

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

## Marketed By:

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