
Water-based pad/screen printing ink for ABS, PVC, PC, pre-treated PP, and coated substrates.

Medium glossy and opaque ink, Low VOC(<10%) ink suitable for sensitive applications

Field of Application

Substrates

Versatile one component ink used in pad and screen printing.

FarbAqua can be applied on:

- Wood, coated or uncoated
- ABS
- PVC
- PC

After pre-treatment / cleaning FarbAqua also adheres well to:

- pre-treated PP (must be pre-treated by flaming or corona discharge)
- coated substrates.

Since different substrates may differ in printability, pre-tests are essential before going into production.

Pre-treatment of substrate should also be checked for efficiency before printing.

Application Process

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

FarbAqua can be used for single and multicolour printing, particularly on toys and in sports industry.

Printing parameters-

- All commercially available clichés can be used.
- A fundamental requirement is the absolute flatness of the base .
- Recommended cliché depth is 20-35 µm.
- Should have dots with a density of approx. 85 %.
- Dry or super dry printing pads with a minimum of 8 shore.
- Distilled water can be used as thinner to adjust viscosity.
- It is recommended to use climate-controlled condition with proper temperature and humidity conditions for achieving best printing results.

Temperature 20-28 °C

Humidity 40-60%

CHARACTERSTICS

- FarbAqua inks are PAH and Halogen free. The VOC content in these inks is very low <10% .As compared to solvent-based inks >40%.



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- These inks are suited for applications compliant with the toys directive DIN EN 71-3. It is made without the use of BPA/BPS.
Hence these inks are more environment friendly and safety compliant.
- The ink must be stirred homogeneously before use.
- Viscosity of ink must be maintained at steady level during production.
- These inks are **medium fast drying**.
- Pigments of medium to **high fade resistance** are used for these inks.
- After proper and thorough drying, the ink film exhibits **outstanding adhesion** as well as rub,scratch, and block resistance.
- It is characteristic of water-based ink systems that the chemical and mechanical resistance of the ink film will increase significantly with time. Resistance tests should be carried out at the earliest 7 days after application.

FarbAqua		
BASIC COLOR	SHADES	CODE
Yellow	Lemon	EI 200
	Light Yellow	EI 203
	Medium Yellow	EI 201
Red	Orange	EI 306
	Vermilion	EI 304
	Scarlet Red	EI 300
	Carmine Red	EI 301
	Magenta	EI 302
Brown		EI 401
Blue	Violet	EI 505
	Ultramarine Blue	EI 500
	Medium Blue	EI 507
	Brilliant Blue	EI 502
Green	Blue Green	EI 603
	Grass Green	EI 601
White	White	EI 100
	opaque white	EI 101
black	Black	EI 900
	opaque Black	EI 901

RANGE

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

Auxiliaries

Retarder

To adjust the ink printing, Retarder (max. addition 3-5 %) may be added.

If needed, viscosity can be regulated with distilled water (max. 2-3 %).



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Retarder ANX 271

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

Anti-Rust Additive

Rusting of low-quality steel clichés can be prevented by adding a maximum of 5-10 % Anti-Rust Additive.

Anti-Rust additive ARS 267

Marketed By:

**SPINKS INDIA
Plot No 135, Pace city I,
Sector 37, Gurugram
Haryana- 122001(India)**

Shelf Life

FarbAqua is a water-based ink system and to avoid frost damages, the temperature should never undergo below 5C during storage and transportation.

When stored at a temperature range of 15–25°C, the shelf life of the unopened ink container is 1 year.

Precaution:

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

The above statements are accurate to our best knowledge and belief. However, due to the great number of possible influences during the manufacture of the substrate and the variation in the application process suggest that suitability testing take place under actual conditions before production. No legally binding guarantee of certain properties or of the suitability for a definite application purpose can be derived from the above information.