

HYDRINX Technical Data

Hydrinx are water based rotogravure and flexo inks for surface printing on paper and paper board for pre-print and post-print applications.

Properties

- High gloss
- High color strength
- Good and easy printability
- High printing definitions
- Suitable for photo-color jobs
- Good press stability
- Good drying properties
- Absence of alcohols
- Viscosity for easy handling
- Not alkali resistant.

General Information

The Average pH of 8,7 should be kept during use.

Should the pH become lower than 8,1 it must be restored to approximately 8,7 making sure it doesn't overstep 8,9.

Reduction of color strength can be achieved with controlled amount of water and thinning varnish. Thinning with alcohols to replace part of water is also possible for increasing printing speeds.

Viscosities: inks are formulated for easy handling. However, certain pigments may technically generate high apparent viscosity, in particular Red PR 57:1.

Foaming: an antifoam shouldn't be necessary. If foaming takes place try first to correct the factors causing it, such as turbulence, pumps etc.... Before using an antifoam try to solve the problem by first spraying alcohol over the foam.

A 0,1% of a proper antifoam should be adequate.

Waxes: the Hydrinx series is wax free; if necessary waxes can be used up to 5% depending on wax formulation.

Drying is relatively fast.

Retarders can be used if needed. Most effective is 1-2% of propylene glycol. Also glycol ethers can be used in larger amounts. Of these the most effective is the

dipropylene glycol monomethyl ether, functioning also as coalescing agent.

However, before using retarders look at parameters that may cause undesirable effects such as speed, blowing air on application system, temperature and relative humidity, % of printed areas.

Cleaning can be done with water. If the inks are dry use water and alcohol with a surface active detergent up to 9,5 pH.

Remarks

Hydrinx are based on built in properties of their resins and, therefore, their formulations allow ample spectrum of variations by use of specific additives.

Available Colors

The colors are indicated below according to the International Color Index.

PY 3	PR 2	PV 23
PY 12	PR 4	PV 27
PY13	PR 49:1	
PY 14	PR 53:1	PB 15:0
PY74	PR 57:1	PB 15:3
PY 83	PR 122	
	PR 146	PG 7
PO 13	PR 170	
PO 34	PR 184	PBL 7

Packaging

- 25 Kg pails
- 200 Kg drums
- 1.000 Kg tank

Service Life and Storage

The inks kept in original containers at normal ambient temperatures (10 – 35 °C) should be stable for one year.

Note

Above information cannot include all variables and factors influencing the usage of Hydrinx series. Therefore it is up to the user to proceed with rational carefulness. Specifications per each color are available upon request.