

WATER-BASED INKS: THE SUSTAINABLE SOLUTION FOR PRINTING ON FLEXIBLE PACKAGING

Laura Pomés / March 2021

SPECIALISTS in the design and manufacture of printing inks and coatings

- 60 years' experience
- Headquarters in Barcelona
- Sales offices in Madrid and Valencia
- Presence in South America, Africa, Australia and Europe

Quimovil offers a broad **WATER-BASED** inks and coatings PORTFOLIO for:

- Flexible packaging
- Corrugated board
- Primers
- Sacks and bags
- Tissue
- Labels

SERVICES:

- Direct Technical support
- Consulting
- Trainings
- Strategic environmental services

WE ARE EXPERTS IN PROVIDING SOLUTIONS WITH TAILORED SERVICES THAT MEET THE CURRENT AND FUTURE NEEDS OF OUR CLIENTS

Tell us what you need, and if it doesn't exist, we'll design it for you

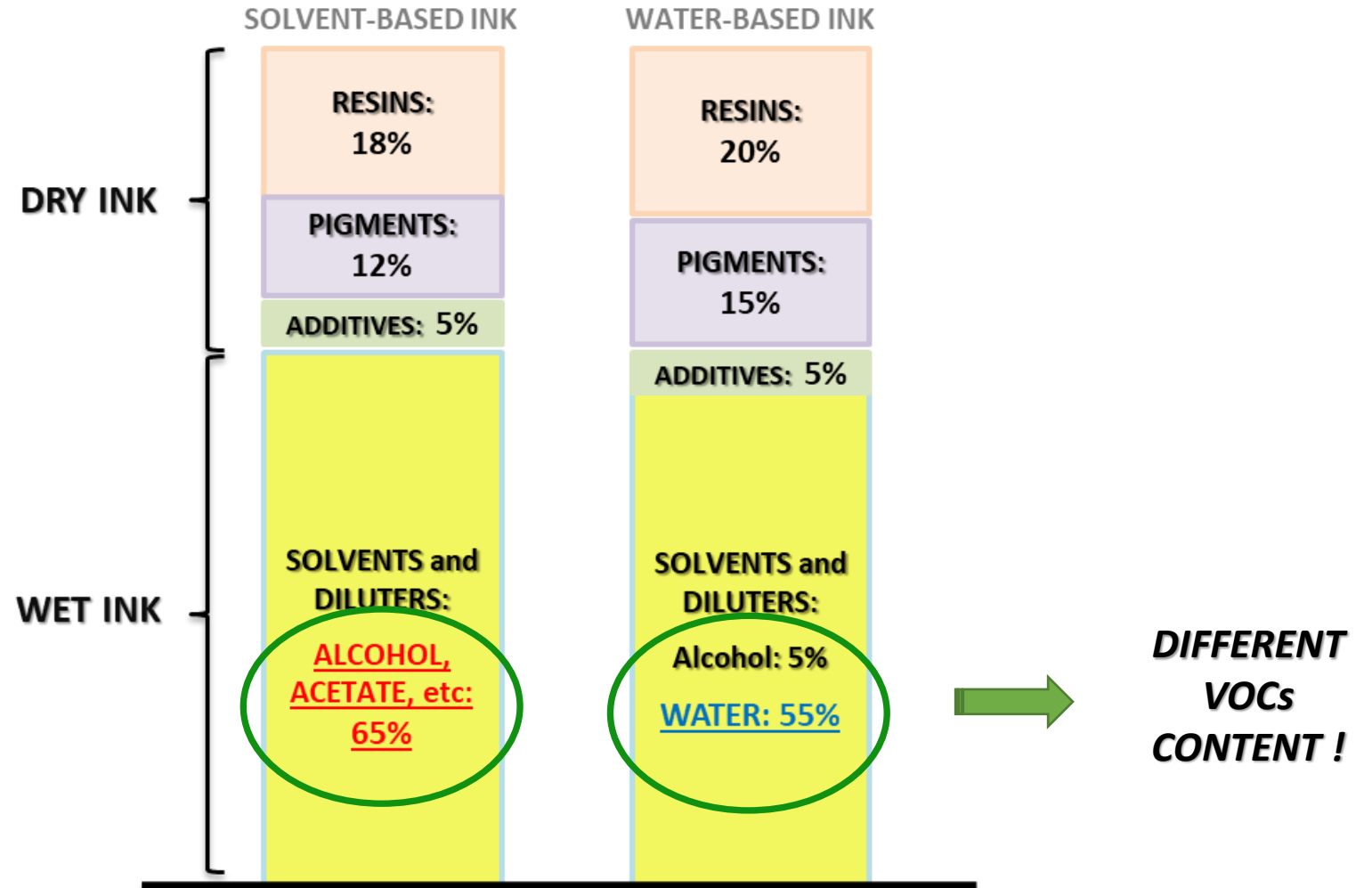
WHY WATER-BASED INKS?

Why not...



WATER-BASED INKS compared with SB inks

FORMULATION



ADVANTAGES

- **Non-flammable:**
 - No special handling or storage requirements
 - No explosion proof equipment is necessary
- More stable on press (including pH)
- Higher yield
- Higher photopolymer plates useful life
- **Very low VOCs content:**
 - VOCs treatment is not necessary
 - Less solvent consumption

DISADVANTAGES

- Water evaporates slower:
 - Less drying speed
 - Less resolubility

THE SAME PROPERTIES

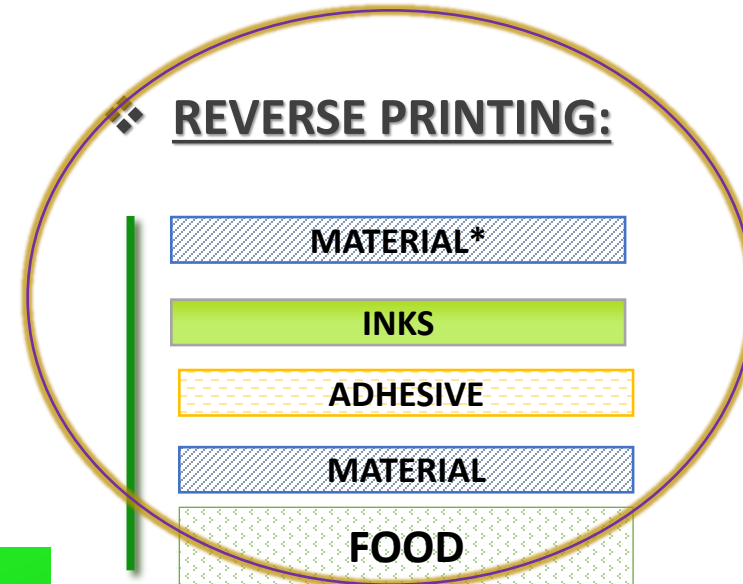
- Cleaning process
- Waste management
- Printing quality: Adhesion, resistances, colour intensity, opacity, bond strengths, etc.
- **FINAL APPLICATIONS:** Flexible packaging, corrugated board, labels, sacks and bags, etc.

WATER-BASED INKS FOR FLEXIBLE PACKAGING

❖ SURFACE PRINTING:



❖ REVERSE PRINTING:



Waterbased inks for diferent applications !

- AQUAFILM
- QUIMO-IRIS (for compostable packaging)
- AQUAPLUS
- LAMIN-FLEX
- ...

* PET, BOPP mostly

CASE STUDY - SERIE LAMIN-FLEX

PROPERTIES:

- Reverse printing
- Water-based flexographic ink
- Polyurethane based
- Printing on PET and BOPP
- Lamination with BOPP, PE, PET Met, BOPP Met, etc.
- Solventless 2K Adhesive
- Applications: Food packaging, PET food, etc.

PERFORMANCE:

- High press stability
- No blocking
- High resolubility
- Fast drying speed
- Good extensibility
- High strength and transparence of colours
- High bond strength after lamination

CASE STUDY - SERIE LAMIN-FLEX

My friend and I have been printed with inks Laminflex by **GRUPO CONSIST**
flexible solutions for flexible packaging



GRUPO CONSIST
flexible solutions for flexible packaging

**FTA EUROPE 2018
DIAMOND AWARD
WINNER**

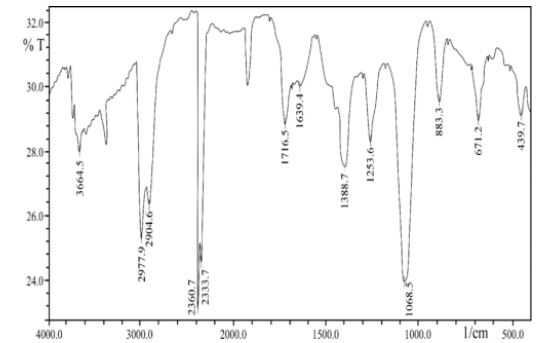


FOOD SAFETY RISK ANALYSIS:

- **OVERALL MIGRATION**, according to UNE-EN 1186-4
- **SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINES (PAA)**, according to UNE-EN 13130-1
- **SCREENING OF COMPOUNDS**, on sample and on migration solution

POSITIVE RESULTS*

* According to Regulation (EU) N. 10/2011



INK CARBON FOOTPRINT :

- CARBON FOOTPRINT OF RAW MATERIALS
- CARBON FOOTPRINT OF INK MANUFACTURING PROCESS
- CARBON FOOTPRINT OF WASTE VALORIZATION

**WATER-BASED INKS 25 - 35 %
LESS THAN SOLVENT-BASED
INKS**

THANK YOU

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