Welcome...

...This newsletter is for you, so please do not hesitate to email us with topics you would like to see featured at info.us@siegwerk.com. ENJOY!

TWO COMPONENT SOLUTIONS
A truly innovative ink segment where Siegwerk is 2nd to none

High sealing temperatures. Pasteurization or sterilization. Aggressive filling goods. These are all steep demands that present-day flexible packaging may be required to meet when considering the design and tools to build a rigorous packaging structure. Siegwerk understands these demands and offers a truly innovative solution to these ink needs - Two Component (2K) Technology!

In order to meet these demands, Siegwerk global technical team has formulated a wide variety of successfully commercial 2K solutions. Benefits of these systems over one-component systems include:

- Higher resistance in sealed area
- Higher gloss
- Higher resistance to highly dissolving / aggressive filling good
- Barrier-effect towards migrating components of filling good
- Enhanced mechanical resistance (i.e., scratch, heat)
- Enhanced adhesion on poorly pre-treated or aged substrates

CASE STUDY: MINI POUCH

Package:

Objectives: Achieve high chemical resistance & superior optical effects

Solution: Move from laminated to a surface foil printed structure; remove aluminum foil layer & utilize 2K overprint varnish

Savings: Customer Project Example

Benefits: Objectives met; printing and packaging efficiencies realized in process simplification & material costs

Expanding Resources
Recent changes & additions to the Siegwerk CUSA team

As Siegwerk continues to invest in its resources, new team members have been added in order to further strengthen the already well established and highly experienced sales and technical team. The Siegwerk family welcomes the following new faces: Manuel Garces, Regional Sales Manager-Canada; Tracy Fielding, GTA Account Manager - Canada; and Chip Nelson, Sales Strategy Manager - CUSA. An old face that has returned is Bill Voboril accepting the role as Lab Manager in Des Moines.

Other members have taken on new roles within the organization including Andy Vandermeer transitioning to a technical role as Technical Account Manager - Canada. Also Ron Boerjan, Account Service Representative for the Midwest has relocated to the Western US region to assist Fred Regacho in growing the region. In addition, Siegwerk CUSA is pleased to announce Mark Peska has accepted the position of Regional In-house Manager to oversee in-house harmonization and new transitions.

Changes are in process regarding the centralization of color matching for all customers. David Reynolds, has taken on the responsibility of Color Match Manager headquartered in Des Moines, Iowa. David and his team will centralize the color match lab into the centralized Des Moines application technology and R&D laboratory.

“All additions to the team, as well as, centralization of certain processes including color matching will help to strengthen the overall service offering to our customers,” stated Terry Davis, VP Sales & Service for Siegwerk CUSA. “Continued investment into our team through training and knowledge-sharing prove Siegwerk’s commitment to the packaging ink industry.”
Providing Innovation, News, and Know-how
2014 INKday was a success

INKday 2014 was a day dedicated to the topic of INK! This year’s event was hosted in Des Moines, Iowa at Siegwerk’s Center of Printing Excellence.

The day began with two keynote speakers: Al Marquardt from Kimberly Clark discussing what a world class supplier means to Kimberly Clark, and Dr. Ralph Detsch from Siegwerk Germany discussing packaging and ink trends throughout the globe. Speakers were followed by an afternoon of break-out sessions in which each discussion was moderated by a Siegwerk expert to foster open conversation on the following topics:

- Color Metrics
- High Speed Printing
- Current Product Safety Issues
- Two Component Technology
- Continuous Improvement Initiatives

The day concluded with a reception dinner to allow for further networking opportunities. Feedback was highly positive from attendees. Planning for INKday 2015 will begin soon!

Ask the Chemist...

Question: What are things that I can do to stop pinholing from occurring?

Answer: First you must determine the root cause. If the cause is due to an uneven film or plate surface, you must increase the pressure setting or replace the film/plate. If the substrate is unevenly wetted, you can replace the printing materials or increase the ink layer thickness through higher viscosity or exchanging anilox rollers. These are just a few suggestions. As always contact your Siegwerk technical resource for assistance in problem-solving.

Email us at askthechemist.us@siegwerk.com. We look forward to hearing from you.

Two Component Technology (Cont’d)

2K systems are offered as primers, whites, varnishes and/or a colored ink system. Standard one-component colors can be applied in combination with 2K primers, whites or varnishes.

Typical questions regarding 2K solutions:
1- Would a 2K solution solve my issues related to abrasion of inks?
Answer: One key advantage of 2K technology is its outstanding mechanical properties which can be achieved. Every structure may need a different solution as there is not a universal solution. A deep understanding of the current structure is necessary.

2 - Are there limitations on print speed?
Answer: Print speed would depend on the application and printing process. In flexography this may be more critical than gravure, thus optimization of all process parameters is key.

3 - Are all 2K solutions printable in flexography?
Answer: Yes, some EAc-based and alcohol-based 2K solutions are able to be printed on flexographic presses.

4 - Are 2K solutions safe in regard to worker and consumer safety?
Answer: Yes, while hardeners may require some extra safety measures during handling, 2K solutions are safe as long as instructions given in the safety data sheets for processing are observed.

5 - What is the typical pot life of 2K solutions?
Answer: Typical pot life is 6 - 8 hours; however, we suggest to follow recommended instructions in the technical data sheet.

6 - Are there special rules to follow when working with 2K solutions?
Answer: As 2K solutions are based on a chemical curing process some special measures with processing need to be observed. (i.e., immediate and thorough cleaning of the printing press, plate, anilox and cylinder upon shutdown or longer stops). Disposal and storage of 2K solutions also require some special handling.

Upcoming events...
FTA Fall Conference, Oct 20-22, 2014
FPA Annual Meeting, Mar 3-5, 2015
FTA Annual Forum, May 2-6, 2015

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