



# NEW PAD PRINTING PRODUCTS



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The average ink layer transferred by pad technology being approx. 5 µm, effects achieved with pad inks are not really laid on thick. Nevertheless our customers continuously demonstrate the excellent results, which can be achieved with our pad printing inks. One of the main objectives of the Coates Screen Inks laboratory is to understand present market requirements, improve existing ink types and develop new ones in close and daily communication with our customers. The following new products are the results of developments carried out to further improve results obtained and to make work easier for our pad inks customers.



## New highly opaque white TP 300 adjustments

Since the beginning of pad printing opacity has been one of the main requirements of our customers. Our highly opaque standard ink range (HD) comprises adjustments showing best results in comparison with our competitor's inks. As, however, good things can always be improved we have developed a new highly opaque white for our ink range TP 300: **TP 300/60-529-HD-MT**

Opacity of this adjustment is by far superior to that of TP 300/60-HD. This is not a "white concentrate". Such concentrates are usually more paste-like and require a high degree of thinning, which again results in less opacity. TP 300/60-529-HD-MT ink shows good flow properties and can be processed with the regular amount of thinner.

## High Gloss Pad Printing Inks

Immediately after our introduction of mirror gloss screen inks MI we were naturally asked if such effects could also be achieved with pad printing technology. Unfortunately MI inks can only be processed by screen printing and the mirror effect can only be achieved if printed on the reverse side of clear materials. Pad printing on the other hand asks for high gloss effects applied on the front side of materials.

To date our top product in that respect was TP 300/79-MG, however even this high gloss silver partially appears greyish when printing fine details. A new adjustment, TP 300/79-278-MG, shows much better effects. This adjustment has all the advantages of ink range TP 300.

As a result of long-term development work we also succeeded in formulating a product close to the screen mirror gloss inks. Printability of TP/MI cannot be compared to that of TP 300 inks, however, if printed on the reverse side of clear materials it results in a mirror-like effect. And TP/MI 79 can be used for direct printing onto plastics and coatings. There will be a chromium-like effect and this ink will resist a tape and fingernail test on most commercial plastics (ABS, PC, PMMA, PS).



Unfortunately due to their high raw material cost these two products have a higher price than the standard products.

## Glass Ink

Glass inks TP218/GL are not the user-friendliest ink series. Not because of their adhesion. Processed with the right hardener inks applied to glass, ceramics or various metals can hardly be removed. Even after several dishwasher cycles the glass material itself shows more traces than the prints.



However we were often told that the ink shows quite a slow printability. These printability properties have now been improved and the following products are available in black and white colour shades:

## LAB-N 341705/N50 black LAB-N 341705/W50 white

Resistance and adhesion properties are excellent. The "only" difference is their better printability.

## Additive C

Actually this is not a new product. This thinner has been offered as LAB-N 510027 for several years. Increasing demand for this thinner was the reason for our decision to add this product to our additive range. Originally this thinner was developed due to requirement for an extremely quick thinner for quick printing processes. Our thinner range with Additive A for regular applications and Additive B as quick thinner is now supplemented with the "new" Additive C.



## Improved Abrasion of Pad Prints

There are quite a few different ways to test abrasion of decorations. Especially the automotive and electronic industries seem to have numerous technicians continuously developing new tests to protect their products from any kind of damage. Coates Screen offers an additive called LAB-N 560469 to improve abrasion of pad inks. This product is a powdery product, fine as dust. Addition to the ink is approx. 3-5 % by weight. After the drying process this product is at the surface of the ink film and increases abrasion resistance of the ink. Surely Additive LAB-N 560469 is no guarantee that all abrasion tests of the future will successfully be passed, however it has often made the difference in "passing" or "not passing" a test.

**For further information or product samples please contact our sales department or your local distributor.**

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