



Harald Tröger  
Laboratory: Pad Printing

# INTRODUCING: TP 340

The average ink layer transferred in pad printing being approx. 5µm the effects applied with pad printing inks are not very thick. Still our customers and the products they produce constantly demonstrate the excellent results you can obtain with our existing range of pad printing inks. Frequent exchange of information between our customers and our laboratory helps us to better understand present market demands and enhance existing ranges or even develop new pad printing inks.

With the new pad printing ink TP 340, we Coates Screen Inks GmbH expand our existing range of pad printing inks with another product tailor-made to customer needs and requirements.



## PROPERTIES OF TP 340 AND EXPERIENCE

Since the introduction of TP 340 at our key accounts this ink range has already reached a considerable sales volume. This shows what a potential this new ink offers. No doubt this ink range will be successful on the market.

The ink system TP 340 will supplement and expand the already broad offer of various pad printing ink systems of Coates Screen Inks GmbH. Or citing a common expression used in team sports you could also say "TP 340 will give more depth to our product portfolio".

TP 340 shows excellent properties and easy handling. After adjusting the required processing viscosity you can print with very high (more than 3600 cycles/minute are a realistic estimate) and also with very low cycles.

## APPLICATION

Main fields of application are

- advertising industry**
- automotive industry**
- toy industry**

Gloss level: high

Drying speed: quick

Alternatively: hardener: 10:1 TP219 or TP219/N to improve adhesion on difficult substrates

For ABS, ASA, PVC, PMMA

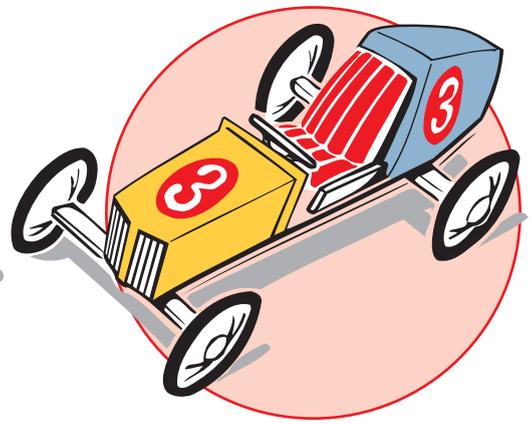
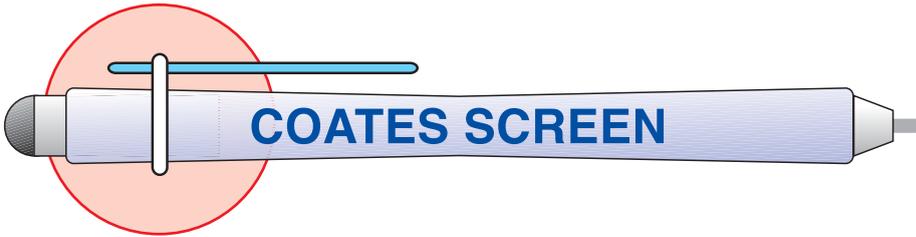
## SUBSTRATES

ABS, SAN, ASA	●
PVC rigid	●
PMMA	●
Polycarbonate	●
Wood	●
Metals	● ●
Polyamide PA	● ●
Polyacetal (post-treatment required)	●
Polyethylene, Polypropylene (pre-treated)	● ●
Polyester	● ●
Polystyrene	●
Polyurethane	● ●
PVC plasticized	●

● preferred for the application

● suitable

● improved adhesion when processed with hardener TP219 or TP219/N (10:1)



Type of plate does not play an essential role, you can use steel or polymer plates, either screened or non-screened.

Another significant feature of TP 340 is its quick initial adhesion on ABS, PMMA and many other common plastic substrates. This is a property confirmed by customers who have already successfully used TP 340 inks. The printers can quickly assess adhesion of TP 340 and confirm the requested properties. There is full ink transfer during printing, there are no ink residues sticking to the pad which means there is also less pad cleaning involved.

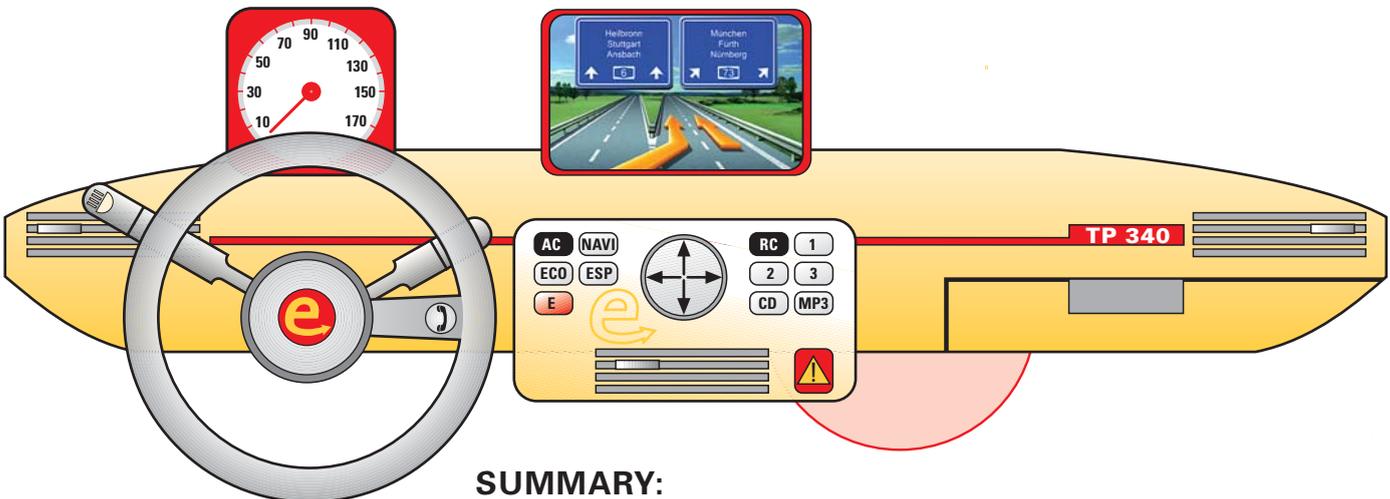
## TECHNICAL ASPECTS

TP 340 is a 1-component pad printing ink, exhibiting very good mechanical and chemical resistances. Adhesion on various substrates may be enhanced by addition of 10% hardener TP 219 or TP 219/N. Addition of hardener will not significantly affect resistance values. Prints made with TP 340 inks result in a tough and resistant surface with good abrasion and alcohol and fuel resistance.

## SAFETY AND REGULATORY ASPECTS

All present experience and data were taken into consideration during the development of TP 340. Raw materials were checked carefully and any substances with a high risk potential excluded. TP 340 formulation does not contain cyclohexanone, butyl glycolate and aromatic hydrocarbons. The binder system complies with the new directive on the safety of toys EN 71-part 3/2013\*), the Swiss Ordinance 817.023.21. TP 340 does not contain any bisphenol-A, no phthalates, corresponds to packaging directive 94/62EC, GADSL (automotive industry) and many other standards and directives.

*\*) Pigment preparations of colour shades are currently under evaluation. A list of colour shades already tested by an independent and accredited analytic laboratory is available upon request.*



## SUMMARY:

Once again Coates Screen Inks GmbH has shown that we are always ready to listen to our customers and react to their needs and requirements. We do not only promise tailor-made solutions, we actually provide them.

TP 340 is a state-of-the-art ink many users have actually waited for. No doubt this ink range will turn out to be one of our top ranges shortly. The numerous features this pad ink range offers will surely convince our customers. Just try it.

**FOR MORE  
INFORMATION  
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