



# Technical Data Sheet

## TPC 440

### 1- Component Pad Printing Ink

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## 1-Component Pad Printing Ink TPC 440

### Application

For cellulose acetate, cellulose acetobutyrate, duroplastics, glass, wood, coated surfaces, leather, paper, polycarbonate, polyester, polymethylmethacrylate and polyurethane.

### Properties

Pad Printing Inks TPC 440 show good opacity, overprintability and gloss.

### Colour Shades

The colour shades of the TPC 440-NT range show heavy metal free pigmentation and correspond to EN 71, part 3, safety of toys, migration of certain elements.

### Ink Colour Programme

#### Standard Shades

TPC 440/10-NT citric yellow  
TPC 440/12-NT dark yellow  
TPC 440/15-NT orange  
TPC 440/17-NT ochre yellow  
TPC 440/20-NT light red  
TPC 440/21-NT bright red  
TPC 440/22-NT carmine red  
TPC 440/25-NT pink  
TPC 440/30-NT light blue  
TPC 440/31-NT medium blue  
TPC 440/32-NT ultra blue  
TPC 440/33-NT dark blue  
TPC 440/40-NT light green  
TPC 440/41-NT fir green  
TPC 440/50-NT light brown  
TPC 440/60-NT white,  
TPC 440/65-NT black  
TPC 440/65-MT-NT black mat

Other shades can be manufactured subject to our special ink shade regulation.

TPC 440/180-NT euro yellow  
TPC 440/181-NT euro magenta  
TPC 440/182-NT euro cyan

#### Mixing System Base Colours

TPC 440/GF-01-NT primrose  
TPC 440/GF-02-NT golden yellow  
TPC 440/GF-03-NT orange  
TPC 440/GF-04-NT scarlet  
TPC 440/GF-05-NT magenta  
TPC 440/GF-06-NT red  
TPC 440/GF-07-NT violet  
TPC 440/GF-08-NT blue  
TPC 440/GF-09-NT green  
TPC 440/GF-11-NT white  
TPC 440/GF-12-NT black  
TPC 440/GF-13 varnish

For mixing of colour shades the formulations listed in the GF-recipe-catalogue can be used as a guide.

#### Metal Colour Tones

TPC 440/75-NT bright gold  
TPC 440/76-NT medium gold  
TPC 440/77-NT pale gold  
TPC 440/78-NT copper  
TPC 440/79-NT silver

#### Metal Gloss Inks

TP 440/75-MG rich gold  
TP 440/76-MG rich-pale gold  
TP 440/77-MG pale gold  
TP 440/78-MG copper  
TP 440/79-MG silver

### Adjustment for Pad Printing

Prior to processing pad printing inks TPC 440-NT are adjusted with approx. 15-30% thinner VD. For retardation use ZG.

Process Colour according to European Scale

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#### Drying

Pad Printing Inks TPC 440 are air drying, i.e. by evaporation of solvents. Drying time is approx. 2 minutes at room temperature. (20-25°C; 68-77°F). Heat application and air circulation will reduce drying time to approx. 30 sec.

At room temperature TPC 440 inks are completely cured in 30 minutes.

#### Cleaning

For cleaning of stencils and tools our universal cleaning agent RE can be used.

#### Packing

TPC 440-NT inks are available in 1 litre cans (approx. 1.06 qt.) only.

#### Shelf Life

For information regarding shelf life please see tin label or tube end closer.

#### Marking

Read material safety data sheets prior to processing.

The material safety data sheets according to (EG) 1907/2006 contain marking in compliance with the regulation on dangerous preparations (1999/45/EG) as well as instructions for precautions when processing, handling and storing as well as first aid.

The information given in the material safety data sheet refers to processing as described in this product data sheet.

***The statements in our leaflets and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job.  
- All former leaflets are no longer valid. April 2008.  
Version Nr.3***