



# Technical Data Sheet

## TPC 220

### 2-Component Pad Printing Ink

TPC 220\_en2.doc

20.11.2008 / 24.07.2008 / Lgg

Blatt 1 / 2

## 2-Component Pad Printing Ink TPC 220

### Application

For printing onto **textiles**, rubber, leather, imitation leather and polyurethane.

### Properties

TPC 220-NT inks are quick drying semi gloss pad printing inks. They are elastic and show considerable forming resistance. TPC 220-NT inks show medium opacity.

### Colour Shades

The colour shades of the TPC 220-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 220/10-NT light yellow  
TPC 220/11-NT dark yellow  
TPC 220/21-NT red  
TPC 220/22-NT dark red  
TPC 220/30-NT luminous-blue  
TPC 220/32-NT dark blue  
TPC 220/40-NT light green  
TPC 220/50-NT light brown  
TPC 220/60-NT white  
TPC 220/65-NT black

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

#### Process Shades according to European Scale

TPC 220/180-NT euro yellow  
TPC 220/181-NT euro magenta  
TPC 220/182-NT euro cyan

#### Mixing System Base Colours

TPC 220/GF-01-NT lemon yellow  
TPC 220/GF-02-NT gold yellow  
TPC 220/GF-03-NT orange  
TPC 220/GF-04-NT scarlet  
TPC 220/GF-05-NT magenta  
TPC 220/GF-06-NT red  
TPC 220/GF-07-NT violet  
TPC 220/GF-08-NT blue  
TPC 220/GF-09-NT green  
TPC 220/GF-11-NT white  
TPC 220/GF-12-NT black  
TPC 220/GF-13 varnish

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

### Adjustment for Pad Printing

The ink is adjusted to printing consistency by addition of 15-30% thinner VD or the aggressive solvent VN. For retardation use ZG.

If higher mechanical resistance or increased adhesion are required TPC 220-NT can also be processed as 2-component ink. Mixing ratio in parts by weight should be:

10 parts ink TPC 220 : 1 part hardener HR (parts by weight).

Pot life of the mixed ink is approx. 8 hours. After this time adhesion and resistance might be reduced, even if the ink still seems to be liquid and processable.

### Drying

Pad Printing Inks TPC 220-NT dry chemically or/and physically. Drying time is approx. 1-2 minutes at room temperature (20-25 °C; 68-77 °F). Heat application and air circulation will reduce drying time to 10-20 sec.



# Technical Data Sheet

## TPC 220

### 2-Component Pad Printing Ink

TPC 220\_en2.doc

20.11.2008 / 24.07.2008 / Lgg

Blatt 2 / 2

Mechanical and chemical resistances are not achieved until the ink is fully cured (approx. 5-6 days at room temperature).

#### Cleaning

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

Screen Spray cleaning agent should not be used when processing 2-component inks, as it might have a bad effect on the pot life of these inks.

#### Packing

TPC 220-NT inks are available in 1 litre cans (approx. 1.06 qt.) only.

Hardener HR is available in 1 litre cans and 100 ml tubes.

#### Shelf Life

For information regarding shelf life please see tin label.

#### 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 working materials 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 technical leaflet.

***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.4***