



Technical Data Sheet

TPC 200

2-Component Pad Printing Ink

TPC 200_en3.doc

20.11.2008 / 24.07.2008 / Lgg

Blatt 1 / 2

2-Component Pad Printing Ink TPC 200

Application

For cellulose acetate, duroplastics, polyamide, polyester, polyacetal (post-treated), pre-treated polyethylene and polypropylene, metals and coated surfaces (also for 2-component systems and powder-coated surfaces).

Properties

TPC 200-NT inks are quick drying, glossy and opaque. They show high mechanical resistance and resistance against many organic solvents, chemicals, diluted alkaline and acids, oils and grease.

TPC 200 mixed with UV-resistant hardener HR brings only moderate weather resistance.

Colour Shades

The colour shades of the TPC 200-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 200/10-NT light yellow
TPC 200/11-NT dark yellow
TPC 200/12-NT orange yellow
TPC 200/15-NT orange
TPC 200/17-NT ochre
TPC 200/20-NT light red
TPC 200/21-NT red
TPC 200/22-NT dark red
TPC 200/25-NT pink
TPC 200/30-NT luminous blue
TPC 200/31-NT blue
TPC 200/32-NT dark blue
TPC 200/33-NT black blue
TPC 200/34-NT light blue
TPC 200/37-NT violet
TPC 200/40-NT light green

TPC 200/41-NT dark green
TPC 200/42-NT turquoise
TPC 200/50-NT light brown
TPC 200/51-NT dark brown
TPC 200/65-NT black

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

Highly Opaque Standard Shades HD

TPC 200/10-HD-NT light yellow highly opaque
TPC 200/11-HD-NT dark yellow highly opaque
TPC 200/12-HD-NT orange yellow highly op.
TPC 200/15-HD-NT orange highly opaque
TPC 200/20-HD-NT light red highly opaque
TPC 200/21-HD-NT red highly opaque
TPC 200/22-HD-NT dark highly opaque
TPC 200/30-HD-NT luminous blue highly op.
TPC 200/37-HD-NT violet highly opaque
TPC 200/40-HD-NT light green highly opaque
TPC 200/60-HD NT white, highly opaque

Process Shades according to European Scale

TPC 200/180-NT euro yellow
TPC 200/181-NT euro magenta
TPC 200/182-NT euro cyan

Mixing System Base Colours

TPC 200/GF-01-NT lemon yellow
TPC 200/GF-02-NT gold yellow
TPC 200/GF-03-NT orange
TPC 200/GF-04-NT scarlet
TPC 200/GF-05-NT magenta
TPC 200/GF-06-NT red
TPC 200/GF-07-NT violet
TPC 200/GF-08-NT blue
TPC 200/GF-09-NT green
TPC 200/GF-11-NT white
TPC 200/GF-12-NT black
TPC 200/GF-13 varnish

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



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Blatt 2 / 2

Metal Colour Tones

TPC 200/75-NT rich gold
TPC 200/76-NT rich pale gold
TPC 200/77-02-NT pale gold
TPC 200/78-NT copper
TPC 200/79-04-NT silver

Metal Colour Tones

TPC 200/75-MG-NT rich gold
TPC 200/76-MG-NT rich pale gold
TPC 200/77-MG-NT pale gold
TPC 200/78-MG-NT copper
TPC 200/79-MG-NT silver

Adjustment for Pad Printing

2-component pad printing inks TPC 200-NT are mixed with hardener HN as follows:

4 parts ink TPC 200 : 1 part hardener HN (parts by weight).

Note: For high-opaque colours the mixing ratio is as follows:

5 parts ink : 1 part hardener HN (parts by weight)

The ink is adjusted to printing consistency by addition of 15-30% thinner VD.
Only ZG can be used for retardation.

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

After hardener addition 2-component pad printing inks TPC 200-NT dry chemically/physically. At room temperature (20-25°C; 68-77°F) drying time is approx. 10-15 minutes. With heat application and air circulation drying time is approx. 1 minute. Using a Hot-Wind-blower drying time will only be a few seconds.

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

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 200-NT inks are available in 1 litre cans (approx. 1.06 qt.) and 200ml tubes only.

Metal Colour Inks in 1 litre and 200ml-tin.

Hardener HN 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