



21.02.2006/Lgg
TPC 180_en1.doc

Technical Data Sheet

TPC 180

1- or 2- Component Pad Printing Ink

1- or 2- Component Pad Printing Ink TPC 180

Application

For duroplastics, wood, coated surfaces, various metals, paper polyamide, polyacetal (post-treated), pre-treated polyethylene and polypropylene, polycarbonate, polyester, PMMA, polystyrene, polyurethane, rigid PVC, as well as compact discs.

Properties

Ink type TPC 180-NT is quick drying and glossy. Opacity and printability are very good. Pad printing inks TPC 180-NT are suitable for rotary printing.

Colour Shades

The colour shades of the TPC 180-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 180/10-NT citric yellow
TPC 180/11-NT medium yellow
TPC 180/12-NT dark yellow
TPC 180/15-NT orange
TPC 180/17-NT ochre yellow
TPC 180/20-NT light red
TPC 180/21-NT bright red
TPC 180/22-NT carmine red
TPC 180/25-NT pink
TPC 180/30-NT light blue
TPC 180/31-NT medium blue
TPC 180/32-NT ultra blue
TPC 180/33-NT dark blue
TPC 180/34-NT turquoise
TPC 180/37-NT violet
TPC 180/40-NT light green
TPC 180/41-NT fir green
TPC 180/42-NT brilliant green
TPC 180/50-NT light brown
TPC 180/51-NT dark brown
TPC 180/60-NT white,
TPC 180/65-NT black

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

Highly Opaque Standard Shades HD

TPC 180/10-HD-NT citric yellow highly opaque
TPC 180/11-HD-NT med.yellow highly opaque
TPC 180/12-HD-NT dark yellow highly opaque
TPC 180/15-HD-NT orange highly opaque
TPC 180/20-HD-NT light red highly opaque
TPC 180/21-HD-NT bright red highly opaque
TPC 180/22-HD-NT carminered highly opaque
TPC 180/30-HD-NT light blue highly opaque
TPC 180/37-HD-NT violet highly opaque
TPC 180/40-HD-NT light green highly opaque
TPC 180/60-HD NT white highly opaque
TPC 180/65-HD-NT black highly opaque

Process Colour according to European Scale

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

Mixing System Base Colours

TPC 180/GF-01-NT primrose
TPC 180/GF-02-NT golden yellow
TPC 180/GF-03-NT orange
TPC 180/GF-04-NT scarlet
TPC 180/GF-05-NT magenta
TPC 180/GF-06-NT red
TPC 180/GF-07-NT violet
TPC 180/GF-08-NT blue
TPC 180/GF-09-NT green
TPC 180/GF-11-NT white
TPC 180/GF-12-NT black
TPC 180/GF-13 varnish

Metal Colour Tones

TPC 180/75-NT bright gold
TPC 180/76-NT medium gold
TPC 180/77-NT bronze
TPC 180/78-NT copper
TPC 180/79-NT silver

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



21.02.2006/Lgg
TPC 180_en1.doc

Technical Data Sheet

TPC 180

1- or 2- Component Pad Printing Ink

Metal Gloss Inks

TP 180/75-MG rich gold
TP 180/76-MG rich-pale gold
TP 180/77-MG pale gold
TP 180/78-MG copper
TP 180/79-MG silver

Adjustment for Pad Printing

Prior to processing pad printing inks TPC 180-NT are adjusted with approx. 15-30% thinner VD. For retardation use ZG.

In order to meet higher demands regarding mechanical and chemical resistance as well as adhesion, ink type TPC 180-NT may also be used as a 2-component printing ink.

Mixing ratio pad printing ink TPC180-NT : hardener HN is 10 : 1 parts by weight.

Pot life of the mixed ink is approx. 10 hours. After this time adhesion and resistances might be reduced, even if the ink still seems to be liquid and processable.

Drying

Ink type TPC 180-NT air dries, i.e. by evaporation of solvents. At room temperature (20-25°C; 68-77°F) drying time is approx. 2-3 minutes.

With heat application and air circulation 30-60 seconds. It will take approx. 24 hours to completely cure.

If processed as 2-component ink mechanical and chemical resistances will only be achieved after 3-4 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 180-NT inks are available in 1 liter cans (approx. 1.06 qt.) and 200ml tubes only.

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 91/155/EWG 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. December 2004 _ Version 2