



Technical Data Sheet

TPC 230

2-Component Pad Printing Ink

TPC 230_en2.doc

20.11.2008 / 24.07.2008 / Lgg

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2-Component Pad Printing Ink TPC 230

Application

For duroplastics, glass, coated surfaces, metals and non-ferric metals, polyamide, polycarbonate, polyester, polymethacrylate, polyurethane and rigid PVC.

Properties

TPC 230-NT inks are quick drying, glossy pad printing inks. They show resistance to many organic solvents, chemicals, diluted alkaline and acids. Resistance to mechanic abrasion is very good.

TPC 230 mixed with UV-resistant hardener HR brings only moderate weather resistance.

Colour Shades

The colour shades of the TPC 230-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 230/10-NT citric yellow
TPC 230/11-NT medium yellow
TPC 230/12-NT dark yellow
TPC 230/15-NT orange
TPC 230/17-NT ochre yellow
TPC 230/20-NT light red
TPC 230/21-NT bright red
TPC 230/22-NT carmine red
TPC 230/25-NT pink
TPC 230/30-NT light blue
TPC 230/31-NT medium blue
TPC 230/32-NT ultra blue
TPC 230/33-NT dark blue
TPC 230/34-NT turquoise
TPC 230/37-NT violet
TPC 230/40-NT light green
TPC 230/41-NT fir green
TPC 230/42-NT brilliant green

TPC 230/50-NT light brown
TPC 230/51-NT dark brown
TPC 230/65-NT black

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

Highly Opaque Standard Shades - HD

TPC 230/10-HD-NT citric yellow highly opaque
TPC 230/11-HD-NT medium yellow highly opaque
TPC 230/12-HD-NT dark yellow highly opaque
TPC 230/15-HD-NT orange highly opaque
TPC 230/20-HD-NT light red highly opaque
TPC 230/21-HD-NT bright red highly opaque
TPC 230/22-HD-NT carmine-red highly opaque
TPC 230/30-HD-NT light blue highly opaque
TPC 230/37-HD-NT violet highly opaque
TPC 230/40-HD-NT light green highly opaque
TPC 230/60-HD NT white, highly opaque

Process Shades according to European Scale

TPC 230/180-NT yellow
TPC 230/181-NT magenta
TPC 230/182-NT cyan

Mixing System Base Colours

TPC 230/GF-01-NT primrose
TPC 230/GF-02-NT golden yellow
TPC 230/GF-03-NT orange
TPC 230/GF-04-NT scarlet
TPC 230/GF-05-NT magenta
TPC 230/GF-06-NT red
TPC 230/GF-07-NT violet
TPC 230/GF-08-NT blue
TPC 230/GF-09-NT green
TPC 230/GF-11-NT white
TPC 230/GF-12-NT black
TPC 230/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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Metal Colour Tones

TPC 230/75-NT bright gold
TPC 230/76-NT medium gold
TPC 230/77-NT bronze
TPC 230/79-01-NT silver

Metal Gloss Tones

TPC 230/75-MG-NT bright gold
TPC 230/76-MG-NT medium gold
TPC 230/77-MG-NT bronze
TPC 230/79-MG-NT silver

Adjustment for Pad Printing

Pad printing inks TPC 230-NT are mixed with hardener HN prior to processing. Mixing ratios (parts by weight) should be:

2 parts ink TPC 230 : 1 part hardener HN.

The ink is adjusted to printing consistency by addition of 15-30% thinner VD.

Pot life of the mixed ink is approx. 6 hours. After this time adhesion and resistance might be reduced, even if the ink still seems to be liquid and processable.

Drying

2-component pad printing inks TPC 230-NT mixed with hardener HN dry chemically/physically. At room temperature (20-25°C; 68-77°F) drying time is approx. 2 minutes.

Heat application and air circulation will reduce drying time to approx. 30-40 sec. Using a Leister-blower drying time will be a few seconds only.

Full mechanical and chemical resistance is achieved after 5-6 days curing time.

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

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

Hardener HN is available in 1 liter 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.3