



Technical Data Sheet

TPC 350

1- or 2- Component Pad Printing Ink

TPC 350_en3.doc

20.11.2008 / 24.07.2008 / Lgg

Blatt 1 / 2

1- or 2-Component Pad Printing Ink TPC 350

Application

For rubber, leather, imitation leather, polyamide, polyurethane elastomers (TPE, Santoprene), soft-touch coatings.

Properties

TPC 350-NT inks are quick drying semi-gloss inks. The ink film is elastic and largely follows the contours of the substrate.

Compared to the previous ink type TPC 350, printability of the present pad printing inks TPC 350 has been improved considerably with regard to cobwebs (splashing). Moreover, on several substrates a better adhesion is now possible. Thus TPC 350 can be printed on a broader substrate range.

TPC 350 inks show medium opacity.

TPC 350 mixed with UV-resistant hardener HR brings **very high weather resistance**.

Colour Shades

The colour shades of the TPC 350-NT range show heavy metal free pigmentation and correspond to EN 71, part 3, safety of toys, migration of certain elements.

Ink Colour Programme

High-Density Standard Shades - HD

TPC 350/10-HD-NT citric yellow highly opaque
TPC 350/11-HD-NT medium yellow highly opaque
TPC 350/12-HD-NT dark yellow highly opaque
TPC 350/15-HD-NT orange highly opaque
TPC 350/20-HD-NT light red highly opaque
TPC 350/21-HD-NT bright red highly opaque
TPC 350/22-HD-NT carmine red highly op.
TPC 350/25-HD-NT pink highly opaque
TPC 350/30-HD-NT light blue highly opaque
TPC 350/31-HD-NT medium blue highly op.
TPC 350/32-HD-NT ultra blue highly opaque

TPC 350/33-HD-NT dark blue highly opaque
TPC 350/34-HD-NT turquoise highly opaque
TPC 350/37-HD-NT violet highly opaque
TPC 350/40-HD-NT light green highly opaque
TPC 350/41-HD-NT fir green highly opaque
TPC 350/60-HD-NT white, highly opaque
TPC 350/65-HD-NT black highly opaque

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

Mixing System Base Colours

TPC 350/GF-01-NT primrose
TPC 350/GF-02-NT golden yellow
TPC 350/GF-03-NT orange
TPC 350/GF-04-NT scarlet
TPC 350/GF-05-NT magenta
TPC 350/GF-06-NT red
TPC 350/GF-07-NT violet
TPC 350/GF-08-NT blue
TPC 350/GF-09-NT green
TPC 350/GF-11-NT white
TPC 350/GF-12-NT black
TPC 350/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 350/75-NT bright gold
TPC 350/76-NT medium gold
TPC 350/77-NT pale gold
TPC 350/78-NT copper
TPC 350/79-NT silver

Metal Gloss Inks

TPC 350/75-MG-NT bright gold
TPC 350/76-MG-NT medium gold
TPC 350/77-MG-NT pale gold
TPC 350/78-MG-NT copper
TPC 350/79-MG-NT silver

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

Adjustment for Pad Printing

Prior to processing pad printing inks TPC 350-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 350-NT may also be used as a 2-component printing ink.

Mixing ratio pad printing ink TPC 350-NT : Hardener HR / HN is 10 : 1 parts by weight.

With the TPC350 it is generally recommended to use the HR Hardener instead of the HN, since the HR Hardener is considerably **more flexible** after the full cure of the ink. The HR Hardener provides much better ink adhesion to the surface of the more softer material structures.

Images printed with HR Hardener possess a higher resistance to the fading effects of UV exposure.

2-component ink with HR hardener must be implemented and cured in a room temperature > 20° C.

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

Drying

Pad printing inks TPC 350-NT dry chemically or physically. At room temperature (20-25°C; 68-77°F) drying time is approx. 1-2 minutes. With heat application and air circulation drying time is approx. 10-15 seconds.

If processed as 2-component ink mechanical and chemical resistances will only be achieved after 2-3 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 350-NT inks are available in 1 litre cans (approx. 1.06 qt.) only.

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

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