



Technical Data Sheet

TPC 270

2-Component Pad Printing Ink

TPC 270_en2.doc

20.11.2008 / 24.07.2008 / Lgg

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2-Component Pad Printing Ink TPC 270

Application

For printing onto pre-treated polyolefines such as polyethylene and polypropylene, thermo-plastics (ABS, acrylics), metals, duroplastics and epoxy resins.

Properties

2-component pad printing inks TPC 270-NT are glossy, show good opacity and **high chemical and outdoor resistance**.

TPC 270 is water resistant and **especially suitable for medical sterilization up to 140°C / 1h and 120°C constant**.

TPC 270 mixed with UV-resistant hardener HR brings very high weather resistance.

Colour Shades

The colour shades of the TPC 270-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 270/10-NT light yellow
TPC 270/11-NT dark yellow
TPC 270/12-NT orange yellow
TPC 270/15-NT orange
TPC 270/17-NT ochre
TPC 270/20-NT light red
TPC 270/21-NT red
TPC 270/22-NT dark red
TPC 270/25-NT pink
TPC 270/30-NT luminous blue
TPC 270/31-NT blue
TPC 270/32-NT dark blue
TPC 270/33-NT black blue
TPC 270/34-NT light blue
TPC 270/37-NT violet

TPC 270/40-NT light green
TPC 270/41-NT dark green
TPC 270/42-NT turquoise
TPC 270/50-NT light brown
TPC 270/51-NT dark brown
TPC 270/60-NT white
TPC 270/65-NT black

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

Highly Opaque Standard Shades HD

TPC 270/10-HD-NT light yellow highly opaque
TPC 270/11-HD-NT dark yellow highly opaque
TPC 270/12-HD-NT orange yellow highly opaque
TPC 270/15-HD-NT orange highly opaque
TPC 270/20-HD-NT light red highly opaque
TPC 270/21-HD-NT red highly opaque
TPC 270/22-HD-NT dark highly opaque
TPC 270/30-HD-NT luminous blue highly opaque
TPC 270/37-HD-NT violet highly opaque
TPC 270/40-HD-NT light green highly opaque
TPC 270/60-HD-NT white, highly opaque
TPC 270/65-HD-NT black, highly opaque

Process Colour according to European Scale

TPC 270/180-NT yellow
TPC 270/181-NT magenta
TPC 270/182-NT cyan

Mixing System Base Colours

TPC 270/GF-01-NT primrose
TPC 270/GF-02-NT golden yellow
TPC 270/GF-03-NT orange
TPC 270/GF-04-NT scarlet
TPC 270/GF-05-NT magenta
TPC 270/GF-06-NT red
TPC 270/GF-07-NT violet
TPC 270/GF-08-NT blue
TPC 270/GF-09-NT green
TPC 270/GF-11-NT white
TPC 270/GF-12-NT black
TPC 270/GF-13 varnish



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

Adjustment for Pad Printing

2-component pad printing inks TPC 270-NT are mixed with hardener HN prior to processing. Mixing ratio (parts by weight) should be:

4 parts ink TPC 270 : 1 part hardener HN / HR

Pot life is approx. 8 h.

Pad printing inks TPC 270-NT are adjusted to printing consistency with 15–30% thinner VD. Thinner VG can be used as slow thinner, ZG as retarder.

Drying

After addition of hardener HN 2-component TPC 270-NT inks dry chemically-physically within approx. 15 min. at room temperature (20 ... 25°C / 68 ... 77°F) Heat application and air circulation will reduce drying time to approx. 30 seconds.

At room temperature TPC 270-NT inks are fully cured after 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 270-NT inks are available in 1l cans (approx. 1.06 qt.) and 200ml tubes only.

Hardener HN / 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.3