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TPC 410_E.DOC

Technical Data Sheet

TPC 410, 1-Comp. Heat Curing Pad Printing Ink

1-Comp. Heat Curing Pad Printing Ink TPC 410

Application

For coated substrates, aluminium, brass, copper and duroplastics.

Pre-tests are absolutely necessary, as adhesion may vary depending on substrate and type of pre-treatment.

Properties

Pad printing inks TPC 410 are **oven-curing** synthetic resin inks which show high gloss, good opacity and high resistance. Due to their high elasticity forming of the substrate after printing is possible.

Pigments And Light Fastness

Pad printing inks TPC 410 only contain organic and inorganic pigments with a light fastness of 7-8 according to wool scale (DIN 16 525).

These pigments will resist temperatures up to 180°C (356°F) for short periods of time.

The colour shades of TPC 410 inks show heavy-metal free pigmentation and correspond to the requirements of EN 71, part 3, safety of toys, migration of certain elements.

Ink Colour Programm

TPC 410/GF-01-NT primerose
TPC 410/GF 02-NT golden yellow
TPC 410/GF-03 NT orange
TPC 410/GF-04-NT scarlet
TPC 410/GF-05-NT magenta
TPC 410/GF-06-NT red
TPC 410/GF-07-NT violet
TPC 410/GF-08-NT blue
TPC 410/GF 09-NT green
TPC 410/GF-11 NT white
TPC 410/GF-12 NT black
TPC 410/GF-13 varnish

Adjustment For Pad Printing

The viscosity of Pad printing inks TPC 410 can be adjusted by the following additives :

Thinners: VD ,VG or VS

Retarders: ZG

Drying

For curing Pad printing inks TPC 410 require certain temperatures and drying times, e.g.

140° approx. 20 minutes

160° approx. 15 minutes

180° approx. 10 minutes

Stencils

Due to their binding agents oven curing Pad printing inks TPC 410 contain aggressive solvents. Therefore only water based and photomechanical stencils are suitable.

Cleaning Of Stencils And Tools

Pad printing inks TPC 410 can be removed from stencils and tools using universal cleaning agent URS.

Packing

Pad Printing Inks TPC 410 are available in 1 liter containers.

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. August 2002 – VERSION No. 1