



Coates Screen

Product Data Sheet

PAD PRINTING INKS TP 218-NT

APPLICATION

For cellulose acetate, duroplastics, polyamide, polyester, polyacetal (post-treated), pre-treated polyethylene and polypropylene, metals and coated surfaces (also for 2-component systems and powder-coated surfaces).

PROPERTIES

TP 218-NT inks are quick drying, glossy and opaque. They show high mechanical resistance and resistance against many organic solvents, chemicals, diluted alkalines and acids, oils and grease.

COLOUR SHADES

The colour shades of the TP 218-NT range show heavy metal free pigmentation and correspond to EN 71, part 3, safety of toys, migration of certain elements.

ADJUSTMENT FOR PAD PRINTING

2-component pad printing inks TP 218-NT are mixed with hardener TP 219 as follows:

4 parts ink : 1 part hardener (parts by weight).

Note: For high-opaque colours the mixing ratio is as follows:

5 parts ink : 1 part hardener TP 219 (parts by weight)

The ink is adjusted to printing consistency by addition of 15-30% Additive A. TPD can be used for retardation.

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

DRYING

After hardener addition 2-component pad printing inks TP 218-NT dry chemically/physically. At room temperature (20-25°C; 68-77°F) drying time is approx. 10-15 minutes. With heat application and air circulation drying time is approx. 1 minute. Using a Leister-blower drying time will only be a few seconds.

Mechanical and chemical resistances are not achieved until the ink is fully cured (approx. 5-6 days).

CLEANING

For cleaning of stencils and tools our thinner VD 40 or Cliché Spray can be used.

PACKING

TP 218-NT inks are available in 1 liter cans only.

Hardener TP 219 is available in 0.5 and 1 liter cans (approx. 0.53 and 1.06 qts.). Upon special request it can also be obtained in 200 g tubes.

SHELF LIFE

For information regarding shelf life please see tin label.

CLASSIFICATION

Read material safety data sheets prior to processing.

The material safety data sheets according to Regulation (EC) No 1907/2006 contain classification according to preparations directive (1999/45/EC) 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.

STANDARD SHADES			
citric yellow	TP 218/10-NT	medium blue	TP 218/31-NT
citric yellow, highly opaque	TP 218/10-HD-NT	ultra marine	TP 218/32-NT
medium yellow	TP 218/11-NT	dark blue	TP 218/33-NT
medium yellow, highly opaque	TP 218/11-HD-NT	turquoise	TP 218/34-NT
dark yellow	TP 218/12-NT	blue violet	TP 218/36-NT
dark yellow, highly opaque	TP 218/12-HD-NT	violet	TP 218/37-NT
orange	TP 218/15-NT	violet, highly opaque	TP 218/37-HD-NT
orange, highly opaque	TP 218/15-HD-NT	light green	TP 218/40-NT
ochre yellow	TP 218/17-NT	light green, highly opaque	TP 218/40-HD-NT
light red	TP 218/20-NT	fir green	TP 218/41-NT
light red, highly opaque	TP 218/20-HD-NT	brilliant green	TP 218/42-NT
red bright	TP 218/21-NT	light brown	TP 218/50-NT
red bright, highly opaque	TP 218/21-HD-NT	dark brown	TP 218/51-NT
carmine red	TP 218/22-NT	white	TP 218/60-NT
carmine red, highly opaque	TP 218/22-HD-NT	white, highly opaque	TP 218/60-HD-NT
pink	TP 218/25-NT	white, mat	TP 218/MT-NT
light blue	TP 218/30-NT	black	TP 218/65-NT
light blue, highly opaque	TP 218/30-HD-NT	black, highly opaque	TP 218/65-HD-NT
		black, mat	TP 218/65-MT-NT
Other shades can be manufactured subject to our special shade regulation.			
PROCESS SHADES ACCORDING TO EUROPE SCALE			
yellow	TP 218/180-NT		
magenta	TP 218/181-NT		
cyan	TP 218/182-NT		
C-MIX 2000 BASE COLOURS			
primrose	TP 218-Y30	violet	TP 218-V50
golden yellow	TP 218-Y50	blue	TP 218-B50
orange	TP 218-O50	green	TP 218-G50
scarlet	TP 218-R20	black	TP 218-N50
red	TP 218-R50	white	TP 218-W50
magenta	TP 218-M50	varnish	TP 218-E50
SPECIAL INKS			
transparent paste	TP 218/TP	mat paste	TP 218/MP
bronze binder	TP218/B		

BRONZE INKS	
rich gold	TP 218/75-AB-NT
rich-pale gold	TP 218/76-AB-NT
pale gold	TP 218/77-AB-NT
copper	TP 218/78-AB-NT
silver	TP 218/79-AB-NT
METAL GLOSS INKS	
rich gold	TP 218/75-MG
rich-pale gold	TP 218/76-MG
pale gold	TP 218/77-MG
copper	TP 218/78-MG
silver	TP 218/79-MG
Other shades can be manufactured subject to our special ink shade regulation	

The statements in our product 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 product data sheets are no longer valid. APRIL 2008 – VERSION No. 5

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