



Coates Screen

Product Data Sheet

2-COMPONENT PAD PRINTING INKS TP 218/GL-NT

APPLICATION

For glass, duroplastics, ceramics, metals including chromium and nickel-plated, gilded or rhodium coated surfaces.

PROPERTIES

Pad printing inks TP 218/GL-NT can be air-dried or oven-cured. They result in a semi-gloss finish of good opacity. TP 218/GL-NT inks show high mechanical resistance and resistance to many organic solvents, chemicals, thinned alkalines and acids, oils and grease.

Excellent water resistance is achieved with hardener TP 219/GL and air drying. Resistance to various solvents, however, is limited.

Resistance to water and chemicals can be improved considerably with the use of hardener TP 219/03-GL. TP 219/03-GL air dries or cures by heat application within 20 minutes at 140°C.

Using hardener TP 219/02-GL and oven-curing at 140°C for 20 minutes will result in very good resistances. Prints made with TP 219/02-GL show a higher degree of gloss.

COLOUR SHADES

The colour shades of the TP 218/GL-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

Pad printing inks TP 218/GL-NT are mixed with hardener TP 219/GL, TP 219/03-GL or TP 219/02-GL prior to processing. Mixing ratios (parts by weight) should be:

20 parts ink : 1 part hardener TP 219/GL, TP 219/03-GL or TP 219/02-GL.

The inks are adjusted to printing consistency with 15-30% Additive B. For retardation use TPD. Should flow problems occur use of mild thinner VD 10 is also possible. The pot life of the mixed ink is approx. 8 hours. After this time adhesion and resistance might be reduced, even though the ink still seems liquid and processable.

DRYING

2-component pad printing inks TP 218/GL-NT mixed with hardener TP 219/GL dry chemically/physically. At room temperature (20-25°C; 68-77°F) drying time is approx. 10-15 minutes. Heat application and air circulation will reduce drying time to approx. 40-60 sec.

TP 218/GL-NT may also be oven cured at 140°C (284°F) for 20 minutes.

When air drying the prints they will only reach their full mechanical and chemical resistances after 5-6 days curing time.

CLEANING

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

PACKING

Pad printing inks TP 218/GL-NT are available in 1 liter cans.

Hardeners TP 219/GL and TP 219/02-GL are available in 0,5 and 1 liter cans.

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-GL-NT	medium blue	TP 218/31-GL-NT
medium yellow	TP 218/11-GL-NT	ultra marine	TP 218/32-GL-NT
dark yellow	TP 218/12-GL-NT	turquoise	TP 218/34-GL-NT
orange	TP 218/15-GL-NT	blue violet	TP 218/36-GL-NT
ochre yellow	TP 218/17-GL-NT	violet	TP 218/37-GL-NT
light red	TP 218/20-GL-NT	light green	TP 218/40-GL-NT
bright red	TP 218/21-GL-NT	brilliant green	TP 218/42-GL-NT
pink	TP 218/25-GL-NT	dark brown	TP 218/51-GL-NT
light blue	TP 218/30-GL-NT	white	TP 218/60-GL-NT
		black	TP 218/65-GL-NT
Other colour shades can be manufactured subject to our special production regulation.			
PROCESS COLOURS ACCORDING TO EUROPE SCALE			
yellow	TP 218/180-GL-NT		
magenta	TP 218/181-GL-NT		
cyan	TP 218/182-GL-NT		
C-MIX 2000 BASE COLOURS			
primerose	TP 218/GL-Y30	violet	TP 218/GL-V50
golden yellow	TP 218/GL-Y50	blue	TP 218/GL-B50
orange	TP 218/GL-O50	green	TP 218/GL-G50
scarlet	TP 218/GL-R20	black	TP 218/GL-N50
red	TP 218/GL-R50	white	TP 218/GL-W50
magenta	TP 218/GL-M50	varnish	TP 218/GL-E50

BRONZE INKS	
rich gold	TP 218/75-GL-AB-NT
rich-pale gold	TP 218/76-GL-AB-NT
pale gold	TP 218/77-GL-AB-NT
copper	TP 218/78-GL-AB-NT
silver	TP 218/79-GL-AB-NT
METAL GLOSS INKS	
rich gold	TP 218/75-GL-MG
rich-pale gold	TP 218/76-GL-MG
pale gold	TP 218/77-GL-MG
copper	TP 218/78-GL-MG
silver	TP 218/79-GL-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

Coates Screen Inks GmbH
Wiederholdplatz 1 90451 Nürnberg
Phone: 0911 6422 0 Fax: 0911 6422 200
<http://www.coates.de>