

Technical Data Sheet

Pad Printing Ink Z/GL-S

APPLICATION

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

PROPERTIES

Pad printing inks TP ZGL-S-NT can be air-dried or oven-cured. They result in a glossy finish of good opacity. TP ZGL-S-NT inks show high mechanical resistance and resistance against many organic solvents, chemicals, thinned alkalies 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 ZGL-S-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 ZGL-S-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 ZGL-S-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 ZGL-S-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 URS solvent and Cliché Spray can be used.

PACKING

Pad printing inks TP ZGL-S-NT are available in 1 litre cans.

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

prior to starting the job. - All former product data sheets are no longer valid.
























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

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STANDARD SHADES		
	ZGL S10	CITRIC YELLOW
	ZGL S11	MEDIUM YELLOW
	ZGL S14	LIGHT ORANGE
	ZGL S20	LIGHT RED
	ZGL S21	BRIGHT RED
	ZGL S22	CARMINE RED
	ZGL S30	LIGHT BLUE
	ZGL S31	MEDIUM BLUE
	ZGL S33	DARK BLUE
	ZGL S40	LIGHT GREEN
	ZGL S42	BRILLIANT. GREEN
	ZGL S51	DARK BROWN
	ZGL S60	WHITE
	ZGL S65	BLACK
	ZGL S65/HD	BLACK HIGH DENSITY
	ZGL S70	VARNISH
	ZGL S81	TRANSPARENT RED
PROCESS COLOURS ACCORDING TO EUROPE SCALE		
yellow		ZGL S180
magenta		ZGL S181
cyan		ZGL S182
Other colour shades can be manufactured subject to our special production regulation.		
BRONZE INKS		
rich-pale gold		TP ZGL-S 91
rich gold		TP ZGL-S 93
silver		TP ZGL-S 79

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