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## **2-COMPONENT PAD PRINTING INKS TPA/GL**

### **APPLICATION**

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

### **PROPERTIES**

Pad printing inks TPA/GL can be air-dried or oven-cured. They result in a semi-gloss finish of good opacity. TPA/GL 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 TPWH/GL and air drying. Resistance to various solvents, however, is limited.

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

### **COLOUR SHADES**

The colour shades of the TPA/GL 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 TPA/GL are mixed with hardener TPWH/GL or TPWH-02/GL prior to processing. Mixing ratios (parts by weight) should be:

20 parts ink : 1 part hardener TPWH/GL or TPWH-02/GL.

The inks are adjusted to printing consistency with 15-30% TPW B. For retardation use TPWD. Should flow problems occur use of special thinner CA 262 is also possible. The pot life of the mixed ink is approx. 5 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 TPA/GL mixed with hardener TPWH/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.

TPA/GL 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 universal cleaning agent URS can be used. If the ink has already dried a better cleaning effect is achieved using cleaning agent ZR.

Screen Spray should not be used as it may have a bad effect on the pot life of 2-component inks.

### **PACKING**

Pad printing inks TPA/GL are available in 1 liter cans (approx. 1.06 qt.).

Hardeners TPWH/GL and TPWH-02/GL are available in 0,5 and 1 liter cans (approx. 0,53 and 1.06.).

### **SHELE 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.

<b>STANDARD SHADES</b>			
citric yellow	TPA/GL/280	medium blue	TPA/GL/581
medium yellow	TPA/GL/281	ultra marine	TPA/GL/582
dark yellow	TPA/GL/282	turquoise	TPA/GL/584
orange	TPA/GL/285	blue violet	TPA/GL/586
ochre yellow	TPA/GL/287	violet	TPA/GL/587
light red	TPA/GL/380	light green	TPA/GL/680
bright red	TPA/GL/381	brilliant green	TPA/GL/682
pink	TPA/GL/385	dark brown	TPA/GL/881
light blue	TPA/GL/580	white	TPA/GL/100
Other colour shades can be manufactured subject to our special production regulation.			
<b>PROCESS SHADES ACCORDING TO EUROPE SCALE</b>			
yellow	TPA/GL/200		
magenta	TPA/GL/201		
cyan	TPA/GL/202		
<b>C-MIX 2000 BASE COLOURS</b>			
primrose	TPA/GL/Y30	violet	TPA/GL/V50
golden yellow	TPA/GL/Y50	blue	TPA/GL/B50
orange	TPA/GL/O50	green	TPA/GL/G50
scarlet	TPA/GL/R20	black	TPA/GL/N50
red	TPA/GL/R50	white	TPA/GL/W50
magenta	TPA/GL/M50	varnish	TPA/GL/E50

*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 2000 – Version No.1*