



## PRODUCT GROUP 900

### Series 995-20050/xxx

#### UV-Scratch-off Inks for Flexo Printing



Specially formulated UV-Flexo printing inks for manufacturing of lottery tickets. Its special feature is its high opacity and soft scratchability.

#### A) UV Flexo Release Varnish

“Tesa”-adhesion and “scratchability” of the flexo scratch-off layer structure depends on the used UV-Release varnish (UV-Preprint varnish) which is being used in the first flexo printing in the flexo printing machine.

##### 1.1 Series 995-20050/05, UV-Release Varnish

The UV-Release varnish, Series 995-20050/05 is specially suitable for lottery tickets which require a special high “Tesa”-adhesion. The increased “Tesa”-adhesion protects the lottery ticket against cutting of the scratch-off ink and subsequent ripping of the scratch-off layer by means of an adhesive tape. Use of an adhesive tape results in self destroying when lifting the scratch-off layers and thus makes reading of numbers and/or letters underneath the scratch-off layer impossible.

##### 1.2 Series 995-05/709, UV-Release Structure Varnish

The UV-Release structure varnish, Series 995-05/709 origins the same as the UV-Release varnish Series 995-20050/05, only it does contain additional texturing agents. The functionality of the structuring additives is to better level out the elevations (relief) of the numbers/letters-code that is to be covered.

##### 1.3 Series 571-111, UV-Release Varnish / UV-Overprint Lacquer ECO

The UV-Overprint lacquer, Series 571-111 causes easy scratch-off of the scratch-off layer. However, “Tesa”-adhesion is particularly lower in comparison to the UV-Release varnish, Series 995-20050/05.

##### 1.4 Series 995-05/708, UV-Release Structure Varnish

The same function as described under para 1.2; yet based on Series 571-111 with structurizers.

#### B) Series 995-20050/xxx, UV-Flexo Scratch-off Inks

Best printing results in respect to opacity and “number-code elevation” underneath the scratch-off layer are being reached with following UV-Flexo systems for a scratch-off structure of totally 6 flexo printings:

Flexo-printing 1: UV-Release varnish (see above)	Flexo-cylinder type 60 lines/cm
Flexo-printing 2: Series 995-20050/33, black	Flexo-cylinder type 70 lines/cm
Flexo-printing 3: Series 995-20050/100, scratch-off silver	Flexo-cylinder type 40 lines/cm
Flexo-printing 4: Series 995-20050/33, black	Flexo-cylinder type 70 lines/cm
Flexo-printing 5: Series 995-20050/100, scratch-off silver	Flexo-cylinder type 60 lines/cm
Flexo-printing 6: Series 995-20050/00, white	Flexo-cylinder type 70 lines/cm

#### C) Series 995-09x0/x, UV-Flexo Process Inks

For overprinting of the UV-Flexo scratch-off ink structure (B) with pictures, we would recommend following flexo UV-Process inks:

Flexo-printing 7: Series 995-0950/3, flexo process-cyan	Flexo-cylinder type 320 lines/cm
Flexo-printing 8: Series 995-0970/3, flexo process-magenta	Flexo-cylinder type 240 lines/cm
Flexo-printing 9: Series 995-0960/1, flexo process-yellow	Flexo-cylinder type 320 lines/cm
Flexo-printing 10: Series 995-0980/3, flexo process-black	Flexo-cylinder type 320 lines/cm



## H. W. SANDS CORP.

1003 W. Indiantown Road • Suite 215 • Jupiter, FL 33458  
Telephone: (561) 743-8090 • Facsimile - (561)743-4088  
Website: www.hwsands.com



### SUBSTRATES

Paper	Offset-Pre-prints
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### USE

Application	Lottery tickets
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### PROPERTIES, PROCESSING, DRYING AND MESH

Mesh	2 x 60 lines/cm, 3 x 70 lines/cm, 1 x 40 lines/cm, 3 x 320 lines/cm, 1 x 240 lines/cm
Drying / Curing	UV-curing
Further Processing	Punching, cutting



### ADDITIVES

Thinner	-	Addition Ratio	-
Retarder	-	Addition Ratio	-



### VARIOUS

Delivery Conditions	From stock
Other	-



#### Disclaimer

Please thoroughly read the Material Safety Data Sheet (MSDS) prior to processing. The Material safety Data Sheets according to 91/155/EWG form, contain indications of hazardous ingredients. Exposure levels and instructions for precautions when processing, handling and storing as well as first aid. The information given in the MSDS refers to the processing as described within this technical leaflet. Above data are based on laboratory tests and field experience. All therein contained statements are to the best of our knowledge without any obligation from our side and do not discharge from testing the product by yourself. In doubtful cases, you are kindly requested to either perform your own tests or refer to our technical staff. Application, use and processing of the delivered products are beyond our control and are therefore at your own risk and responsibility. Printcolor is thus free from any guarantees or liabilities. In cases of justified complaints, Printcolor can only be made liable for the counterpart of the utilized ink system. Adding not stated products or foreign / competitors products, is solely at your own risk and liberates Printcolor of any later calls; especially in cases when damages occurred and which have been caused through use of products of foreign type. This leaflet replaces all former issues. (11/2009)