



spectraCRYPT®

Series SC-655-XM/00181

Magnetic Stripe Ink, Black



Technorama Science Center, Winterthur

This functional screen printing ink, based on extremely resistant raw materials, has been developed for printing magnetic stripes of high and low coercitivity force quality (HiCo and LoCo Systems).

Aligning of Fe₂O₃-magnetic pigments immediately after screen printing by permanent bar magnet, condensed with 4 Gauss (magnetic induction, magnet strength). A steel plate, steel ST48C (which is also used in ship manufacturing), is positioned underneath the magnet and underneath the conveyor belt and which represents the opposite pole to the magnet. This steel plate is absolutely important for an optimal orientation of the iron pigments (signal-to-noise ratio, SNR). Usually, magnets with a strength/thickness of 15 mm and a steel plate with 9 mm are used. The distance between print and the magnet is approx. 4-5 cm.



SUBSTRATES

| | | | |
|------------------------|----------------|--|-------------------------------|
| PVC-self adhesive foil | PVC, rigid | Wood | PC |
| PS, ABS Wood | PET-G, PET-GAG | Pre-treated polypropylene (hard materials) | Various papers and cardboards |



USE

| | |
|--------------------|-------------|
| Application | Smart Cards |
|--------------------|-------------|



PROPERTIES, PROCESSING, DRYING AND MESH

| | |
|---------------------------|---|
| Mesh | 43-80 up to 68-55 Y PW PET 1000, eventually dual-printing |
| Drying / Curing | 3 warm zones : 70°C / 1 cold zone : 10°C |
| Further Processing | Punching, cutting, grooving |



ADDITIVES

| | | | |
|--------------------|--|-----------------------|--------------------------------------|
| Thinner | Series 600-017 Series 10-0914 | Addition Ratio | 10-15% by weight 10-15% by weight |
| Retarder | Series 600-018 | Addition Ratio | max. 10% (by weight) |
| Please note | Any addition of additives may result in altered product characteristics and could therefore influence the ink stability in a negative way. | | |



VARIOUS

| | |
|----------------------------|--|
| Delivery Conditions | 1 kg / 5 kg / 25 kg |
| Other | Stir well before use |
| Storage | Normal storage conditions (low temperature changes 20-35°C, humidity 20-70%) |



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. (State: 07/2009 | Last modification: - | Reason: - | Signature: Dr. N. Summa)