

# BRONZE COLOURS



## Technical Data Sheet

## UV screen printing inks

### 1. APPLICATION FIELDS:

For the different specific applications of the RUCO UV screen printing ink series (see technical data sheets of the ink series 920 UV, 930 UV, 950UV, 983 UV, 970 UV/CD, 985 UV, 985 UV/NV, 988 UV, 990 UV) inks with metallic effect can be achieved.

### 2. CHARACTERISTICS:

The metal pigments have special characteristics. In case of bronze colours and with only few exceptions, therefore, pigment and binder are delivered separately and mixed to homogenous inks according to the prescribed mixture ratio only before use. Without such separate delivery the metal pigment may trigger polymerisation of the UV binder. In general, there are two types of metal pigments: leafing and non-leafing pigments.

The leafing pigments have a flat structure which favours a very good metal effect. However, wetting of the pigment surface by binders is difficult which results in insufficient embedding of the pigment particles in the ink film which in turn leads to lacking split resistance and to abrasion of the inks.

The non-leafing metal pigment types have a rather spherical structure which results in a less intensive metal gloss. On the other hand, these pigments can be wetted easily and therefore exhibit a considerably higher split resistance and better wiping stability.

### 3. BRONZE COLOUR RANGE:

#### 3.1 Gold Shades:

##### 3.1.1 Brilliant Gold (2 K-Non-leafing):

This mixture of brilliant silver (also see item 3.2.1) and a coloured bronze varnish stands out for its very good brilliance.

Special Varnish	970 UV 0108	985 UV 0109
Brilliant Paste		360 RS 4058

Recommended mixture ratio:  
9 weight parts special varnish : 1 weight part Brilliant Paste

##### 3.1.2 2 K-Leafing gold bronzes:

Three colour shades are available. The ink is obtained by mixing bronze varnish and gold bronze (see item 4.1).

Brone Varnish see item 4.1

Rich Gold	360 RS 4032
Gold Paste, light	360 RS 4037
Gold Paste, dark	360 RS 4043

Recommended mixture ratio:

5 weight parts bronze varnish : 1 weight part gold bronze

Heed specific differences of the individual series.

#### 3.2 Silver Shades:

##### 3.2.1 Brilliant Silver (2 K-Non-Leafing):

This split fast special pigment is produced in a special process. The particles have a platelike structure, can be well wetted by the binder and stand out for high brilliance.

Brone Varnish	see item 4.1
Brilliant Paste	360 RS 4058

Recommended mixture ratio:

9 weight parts Brone Varnish : 1 weight part Brilliant Paste (see item 4.1)

Heed specific differences of the individual series.

##### 3.2.2 2 K-Leafing Silver:

This silver type stands out for its good gloss and metallic effect.

Silver Paste	360 RS 4028
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Recommended mixture ratio:  
9 weight parts bronze varnish : 1 weight part silver paste

Heed series specific differences.

##### 3.2.3 1 K-Non-Leafing Silver:

These silver inks are ready to use. However, compared to the leafing silver inks they exhibit a weaker metallic effect, but a higher split resistance. The following versions are available:

970 UV 4179 CD	983 UV 4180
985 UV 4154	990 UV 4142



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## 7. PRECAUTIONS:

UV inks may cause irritations and can increase the sensitivity of the skin, possibly leading to hypersensitivity. Therefore, the use of disposable gloves and protective goggles is strongly recommended.

For further information on the safety, storage and environmental aspects concerning these products, please refer to the Material Safety Data Sheet (MSDS).

Additional technical information may be obtained from our staff of the Technical Application Department.

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