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General Information

Satin matt colours frequently are applied for imitating etch decorations and sand blasted decorations.

The colours are applied to decorate lighting and other glasses, for example bottles.

Miscibility

All colours are miscible among each other.

However, mixtures which contain of acid / alkali resistant colours mixed with non resistant ones have less resistance.

By tinting the satin matt lustrous colours with colour shades of our „Meissen range“ you will achieve decorative pastel tones.

As the Meissen colours are richly pigmented, admixtures of maximum 10 % will be sufficient for tinting.

Processing

General Information

The way how the colours will appear - especially the ones of the silky matt lustrous products - mainly depends on the ratio of pasting, the screen size and on the firing temperature.

Each single process and firing parameter has strictly to be kept, in order to achieve reproducible results.

Brush Application:

a)

Turpentine oil and 0000/3 Dammar Laquer or 21 Bodied oil mixed with 0405 Screen printing medium, oily (here used as painting oil)

addition according to the need

Thinner: turpentine

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b)
Paste for screen process printing (based on oil 0405)

to be thinned with turpentine oil until you reach a paintable consistency

c)
0509 Screen printing medium, compatible with water:

(here used as painting oil)

addition: according to the need

dilution: water and / or alcohol

Lining:

0513 Lining medium, compatible with water

Orientation recipe:

Colour: 100 g
 Oil 0513: 32 g
 Water: 60 g

Spraying:

0000/2 Spraying oil

Preparation:

Colour powder: 45 – 60 weight units
 Spraying oil: 55 – 40 weight units

(Grinding, for instance in a ball mill)

For preparing oily preparations, the colour powder has to be completely dry. Even little moistness having been attracted during storage, will lead to „cheesy“ pastes, which can no longer be processed perfectly. Thus we recommend to dry the colour powders at 120 ° C before preparing.

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Direct Screen Print Process:

a)
0405 Screen printing medium, oily

Ratio of pasting:
 Colour powder: 60 – 70 weight units
 Oil: 40 – 30 weight units

b)
0509 Screen printing medium, compatible with water

Ratio of pasting:
 Colour powder: 60 – 70 weight units
 Oil: 40 – 30 weight units

c)
0492 Thermoplastic medium

Pasted ready for screen process printing

Recommended screen:

Polyester: 77 – 150 threads/ cm

Steel: 165 – 400 mesh

according to the decoration and colour

Indirect Screen Print Process (Decals):

a)
0465 Screen printing oil for transfers
 for manual and semi-automatically processing

b)
0782 and 0782 thix Screen printing medium for transfers
 for fully automatically process printing

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Ratio of pasting:

Colour powder: 45 – 55 weight units
Oil: 55 – 45 weight units

Recommended screen:
Polyester or nylon: 77 – 150 threads/ cm
Steel: 220 – 400 mesh

according to the decoration and colour

Covercoats:

a)
0433 Covercoat

for manual and semi-automatically process printing

b)
0601 and 0601 thix Covercoat

for fully automatically process printing

c)
0506 Antiblock covercoat

Recommended screen:

Polyester 30 HD

Firing

The firing temperatures range between 480° - 620° C.

The best burning temperature is determined by the thickness of the applied film and the matt or satin matt lustrous effect desired.

In each case you have to adjust the firing temperature, object temperature and firing cycle to the items to be decorated and to the type of kiln.

In the temperature up to about 450 ° C – in which organic medias and covercoats decompose – the kiln should exhaust very effective. A fast increase of temperature, short peak time and a slow cooling down is advantageous to the glasses.

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Security Advices

Ceramic colours are chemical products. For processing them you have to consider specific security advices according to the danger substance degree.

On the wrappings the informing stickers give notice about the respective dangers.

While processing it is most important to obey the hygienic precautions such as:

- Do not eat, drink or smoke while being at work.
- Do not inhale dust.
- Keep it away from food-stuff
- In case of contact with skin: Wash off and rinse with water and soap.
- If having inhaled: Rinse mouth with cold water.

For more information please contact us or ask for a Material Safety Data Sheet. (MSDS).

Forms of Delivery

Powder:	Minimum purchase quantity per colour shade:	5 kg
Pastes for screen process printing:	Minimum purchase quantity per colour shade:	5 kg
Thermoplastic pasted:	Minimum purchase quantity per colour shade:	25 kg

Storage

Colour powder grants the advantage of unlimited durability; if stored in dry condition.

The powders are a little bit hygroscopic.

Before being processed with oily media; they should by all means be dried at a temperature of about 120 ° C, because a content of little more than 0,1 % water will lead to „cheesy“ pastes. In this case they can no longer be perfectly printed; because they become thick.

Please take care to disperse the colour powder with the medium homogenously. In mixing the powder with the medium, small colour lumps will still remain. Therefore please use a three roll mill or dissolver.

Even in closed receptacles the pastes for screen process printing have only a limited shelf-life. We advice you to store the pastes under dry and cool conditions.

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