



<p><b>Tech. Information</b></p> <p>Version: 01.Mar.2008</p>	<p><b>Meissen Palette</b> <b>Non Resistant Onglaze</b> <b>Enamels for Hand Painting</b> Firing Range: 720 – 800°C</p>	<p><b>Page:</b> 1/6</p>
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## General Information

The low melting colours of „Meissen palette“, suitable for the decoration of porcelain and earthenware, have proved worthwhile in all cases, in which high resistance is **not** demanded.

Using the colours on soft ceramic glazes, a kind of sink-in effect takes place; by this, of course, the colours do not become highly resistant, however, they prove to be well resistant to dishwashing.

## Resistance

The colours of the Meissen palette have only a little resistance against acids and alkalis. Therefore they are not suitable for the decoration of dinner services and should only be used in the field of gift articles or of painting of figures.

The layer thickness, conditions of firing and the glaze of the objects to be decorated do essentially influence the resistance of fired enamels to food stuff and alkali detergents.

Decorations being overfired or not completely melted, prove to have a reduced resistance.

If colour layers are too thick, crazing and cracks will arise, which also will reduce the resistance of the colours.

## Miscibility

Intermixable among each other are the cadmium-free colours as well as the palette of cadmium containing colours.

The precious metal containing colours (indication P, PV, PR) also are not suitable for intermixing with other types of colours.

Admixing with white or blue colours are possible.

### *Please Note:*

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**Processing**

The Meissen colours are suitable for decorating methods as applying by brush, by spraying, lining, direct and indirect screen print processing and by dusting preparations for the offset printing.

In all applying techniques please observe, that the layer thickness of the colours to be fired-on does not exceed 15 µ. In thicker colour layers there is the risk of crazing and exfoliations.

This limit is also true for multicoloured decorations, in which the colour layers are laid one over the other.

In the field of glass painting the colours of this palette are used as covering colours for modelling and shading. In that case they are mixed with water and gum arabicum or dextrine and are applied with a brush.

By mixing you can achieve a big number of colour tints.  
 By this way for example the intermixing of

Chestnut brown	RGF 60	3 weight units	and
Contour black	DN	1 weight unit	

brings forth a decorative grey-brown covering shade.

On glass most of the colour tones burn out with a finish from matt to silky matt.

A further matting of the colours can be reached by admixing matt additive RG 24. Depending on the desired degree of matting the addition for 10 % – 30 % matt additive is requisite, for example:

Colour powder	80 weight units
Matt additive RG 24	20 weight units

By the help of admixing matt additive, the colour becomes brighter according to the percentage of the additive used in it.

For the admixing of pastel tones, F 9096 White is at disposal, and for brightening the colours it is flux 20.

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The following decorating auxiliaries are suitable:

**Brush Application:**

a)  
Turpentine oil and 0000/3 Dammarcoat or 21 new Bodied oil mixed with 0405 Printing medium, oily (to adjust viscosity)

b)  
 0509 Printing medium, compatible with water  
 (here used as painting oils, thinning with water to adjust viscosity)

c)  
 Paste for screen printing (based on oil 0405)

to be diluted with turpentine to a paintable consistency

**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: 55 – 65 weight units  
 Spraying oil: 45 – 35 weight units

Grinding, for instance in a ball mill

For preparing as oily preparations the colour powder has to be completely dry. Even little moisture having been absorbed during storage, will lead to „cheesy“ pastes which can no longer be perfectly print processed. Therefore - before preparing them - we recommend to you to dry the colour powders at a temperature of 120 ° C.

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### **Direct Screen Printing:**

- a)  
0405 Screen printing medium, oily
- b)  
0509 Screen printing medium, compatible with water

#### Recommended screen:

Polyester: 90 – 140 threads/ cm

Steel: 250 – 350 mesh

depending to the decoration and colour

### **Indirect Screen Printing (Decals):**

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

- b)  
0782 or 0782 thix Screen printing medium for transfers, fluid or thixotropic

for fully automatically printing

#### Recommended screen:

Polyester: 90 – 145 threads/ cm

Steel: 230 – 370 mesh

depending to the decoration and colour

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**Covercoats:**

a)  
0433 Covercoat  
 for manual and semi-automatically process printing

b)  
0601 and 0601 thix Covercoat  
 for fully automatically printing

c)  
0506 Antiblock covercoat

Recommended screen:

Polyester 30 threads/ cm (HD)

**Firing**

The firing temperature depends on the thickness of the applied layer, the glaze and on the firing conditions.

Orientation values:            750 – 800 ° C on hard porcelain  
    720 – 780 ° C on earthenware, Bone China

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 items.

**Security Advices**

Because ceramic colours are chemical products, for processing them you have to consider specific security advices according to the danger substance decree.

The labels give notice about the respective dangers. The Colours contain lead.

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

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- Do not eat, drink or smoke while being at work.
- Do not inhale dust.
- Keep it away from food-stuff, beverage and fodder.
- In case of contact with skin: Wash off and rerinse 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.

### Forms of Delivery

Powder: Minimum purchase quantity per colour shade: 5 kg

Paste for screen printing: Minimum purchase quantity per colour shade: 5 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 in cool conditions.

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