

# BÜFA® -Pigment-Paste-1000-D05- MF-BF-08014-sepia brown

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BÜFA®-Pigment-Pasten-1000 / MF are grindings of high-quality pigments in monomer-free UP resins. They are characterised by weather and light fastness properties that offer optimal solutions for every field of application.

## Profile

<b>Product type</b>	Pigment Paste
<b>Product family</b>	PIGMENT PASTE-1000
<b>Colour</b>	brown
<b>BF-Number</b>	BF-08014

## Application Range

BÜFA®-Pigment-Pasten-1000 / MF are suitable for colouring gel- and topcoats as well as laminating and casting resins on UP and VE basis.

## Specification / Technical Data

<b>Density (BM D01) approx.</b>	1,38 g/mL
<b>Flashpoint (BPV FP 02) approx.</b>	100°C
<b>Styrene content approx.</b>	0.0 %

The BÜFA testing standards define the testing scenario after the values are determined in our facilities. They relate to generally accepted standards and are available under request.

## Processing

BÜFA®-Pigment-Pasten-1000 / MF should be stirred gently before use.

When using the same pigment paste in different base gelcoats or resins, colour shade variations are possible.

The use of BÜFA®-Pigment Pastes-1000 / MF in laminating, injection or casting resins is possible, but must be checked in each individual case.

BÜFA®- Pigment Pastes-1000 / MF must never be thinned with styrene or other solvents before processing.

## Colouring

The maximum recommended addition of these BÜFA®-Pigment Pastes 1000 / MF is a concentration of 5 % in BÜFA Gel- and Topcoats. Beforehand, however, it should be checked whether the desired opacity is already achieved at the set concentration.

Under all circumstances, it must be considered that the viscosity and reactivity of the coloured gelcoat may be affected by the amount of colour paste added!

NOTE: We generally advise against the use of BÜFA®-Pigment Pastes-1000 / MF in pool and swimming pool construction. The influence on the osmosis and chlorine resistance is not verified and evaluated due to the many possible influencing factors. If necessary, we refer at this point to the BÜFA®-SWIM gelcoat family.

## Composition

BÜFA®-Pigment Pastes-1000 / MF are rubbed on using high-quality, organic and inorganic pigments in special unsaturated polyester resins. The organic pigments are, for example, azo pigments, phthalocyanines and quinacridones; the inorganic ones are, for example, titanium dioxides, iron oxides and chromium oxides (CrIII).

BÜFA®-Pigment Pastes-1000 / MF are free from mercury, lead, cadmium and chromates (CrVI). The pigments used are - in contrast to dyes - insoluble in the application medium, in water and in most solvents, acids and alkalis. This means - with regard to the azo pigments already mentioned above - that these are not physiologically available when properly processed, and thus no immediate hazard is posed by the respective coupling component. Only at processing temperatures above 200 °C are there certain yellow pigments that can be decomposed. Please also refer to our safety data sheets, which can be obtained individually for each color shade.

## Fastness

All of the pigments we use have already been tested by the manufacturers in various binding agent systems. In full tone, light fastness levels of between 7 and 8 on the eight-step wool scale and fastness to weathering of between 4 and 5 on the five-step grey scale are predominantly achieved.

The assessment is made according to DIN 54003. In addition, each new pigment is tested in a complex qualification process, which includes compatibility, rapid and outdoor weathering as well as abrasion resistance in the cured UP resin. As a result of this experience, we can also provide you with a suitable pigmentation for your specific fastness requirements. For example, the pigmentation of chemically loaded or abrasion-resistant gelcoats.

## Colorimetry

The BÜFA®-Pigment Pastes-1000 / MF cover almost the entire color space. Thus, not every desired color tone can be represented. With the help of our modern spectrophotometers we can reproducibly measure, control and calculate what the trained eyes of our color specialists see. This is especially indispensable for quality control, since the human eye cannot perceive color tone differences as consistently as a measuring device.

However, when colour matching a new colour shade, the visual impression on the human eye often makes the final decision as to whether this colour shade precisely meets the requirements. One reason for this is the difference in colour perception between the measuring device and the human eye. Minor deviations in pastel colours, to which humans are very sensitive, can also be displayed very accurately using the CIElab system, which we use to formulate and check our pigment pastes. In brilliant, strong colour ranges, e.g., flame red or emerald green, however, similar minor deviations that can be measured cannot be perceived by the eye.

## Storage and handling

As a result of the wide range of factors which may influence the operating conditions and the application of the product, the user must still carry out their own tests and trials.

The product must be stored closed, in a cool, dry place and protected from sunlight.

2xx- Batch production

The inspection and verification of the product quality (according to specification) is carried out within the framework of quality control directly after the production of the batch product.

3xx- InPlant- and 4xx- Tinting production

The base products used in the colouring process were inspected within the framework of quality control with regard to their product quality (according to specification).

The pigmented Gelcoats produced in the tinting process are not subjected to any further inspection.

In unopened and undamaged original containers, at storage temperatures of up to 20°C the product can be used for at least 6 months.

Settling of the solid components can be observed with increasing storage time. Homogenization of the container before use is therefore essential.

The above details have been compiled to the best of our knowledge and are based on our current knowledge and experience. These details only constitute product descriptions. Under no circumstances do they constitute guarantees relating to quality or durability. The processor is obliged to carry out their own tests and investigations in order to take responsibility for any processing and application of our products in the processor's application area. The latest version of the corresponding EU safety data sheet must also be observed.