



# Tempera Paint

Productinformation Article no. 503

18.06.2018

## ■ General

In the past, wooden surfaces were often painted with tempera paints indoors. Tempera paints are emulsions of aqueous binders, e.g. milk casein, and oil components, whereby casein is a very good emulsifier.

Kreidezeit Tempera Paint is a casein tempera.

Casein tempera is better suited for wood coatings than pure casein paint, as the oil content improves adhesion and makes the paint a bit more flexible, similar to a plasticizer. A certain flexibility is important for wood coatings, as wood swells and shrinks with temperature and moisture changes.

## ■ Uses

For matt white coatings on untreated wood surfaces indoors. Kreidezeit Tempera Paint is used for Shabby Chic effects on furniture and for paints in low-stress areas: Ceilings, wall panels, beams.

These surfaces have a lower resistance than e.g. surfaces coated with lacquers. The coating is sufficiently protected for moderately stressed surfaces by a post-treatment with Kreidezeit Safflower Multi Purpose Wax.

For ceilings and wall panelling, beams, a treatment with wax is usually not necessary.

## ■ Properties

- powder for mixing with water
- matt, white
- easy to use
- very open to diffusion, antistatic
- excellent opacity
- several times overcoatable.
- free of antidegradants
- free of synthetic resin binders

## ■ Composition (Full Declaration)

Marble powder, chalk, titanium white, casein, kaoline, soda, methyl cellulose, safflower oil

## ■ Suitable Tools

Good quality, medium-pile paint roller (polyamide) and paint brush.

Flat Brush (article no. 2068)

Lacquer Brush (article no. P2067.4)

Small Roller (article no. P6665)

## ■ Substrate Requirements

The Tempera Paint is only suitable for untreated wood. The substrate must be absorbent, structurally sound, clean, dry, solid, non-greasy and free from colouring and permeating ingredients.

Can also be used on rough sawed wood.

## ■ Preparing the Substrate

Remove old coatings completely. Penetrating and colouring ingredients in the substrate can be sealed off with Shellac Sealing Primer (article no. 234) before the paint is applied.

## ■ Initial Sanding

Sand the wood (grit P80-100), rounding the edges. Do not use a finer sandpaper as this will make the wood too dense and unable to absorb enough oil.

New, smooth, planed or finely pre-sanded wood should be rough sanded to ensure the paint can be absorbed. Dust down thoroughly after sanding.

## ■ Primer

Not necessary.

## ■ Mixing The Paint

Stir 1 kg of ppaint powder into 650 ml clean, cold water, until the mixture is smooth. **Use a powerful kitchen mixer.** Leave to expand for at least 30 minutes. Then stir well again while adding 50 ml of Safflower Oil before processing.

## ■ Dilution

Adjust paint/water mixture to suit the surface; i.e. a little more water may be required for a particular application.

Tempera Paint can also be used as a semi-transparent / translucent coating.

## ■ Application

Application temperature at least 8°C.

Stir occasionally during application.

Two coats are typically required for full opacity. Do not attempt to cover dark and high-contrast substrates with only one coat of paint; excessive application thicknesses can lead to damage to the coating! Allow previous coats to dry completely before applying another coat.

Please also note our instructions for our Shabby Chic Set (article no. 504).

The paint should be applied quickly in the direction of the wood fibres. The Paint must be applied within 1-2 days after mixing. Do not use paint that smells bad or rotten under any circumstances: Danger of prolonged odour problems even after drying!

## ■ Tinting

Tempera Paint can be tinted with up to 10% Kreidezeit earth and mineral pigments (max. 100 g pigment per 1 kg paint powder). Either stir the pigment directly into the preparation water until smooth before mixing in the white paint powder, or create a paste with a little water and then mix in with the finished Tempera Paint.



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## ■ Surface Protection With Wax

Kreidezeit Safflower Multi Purpose Wax (Art. 529) is a solvent-free, particularly low-yellowing thistle oil beeswax treatment. The wax makes the shades appear more intense or darker. It is applied thinly with a cloth to the dried surface. Allow to absorb for 15 minutes after application and then rub off any material that has not been absorbed with a dry lint-free cloth. Drying time at 20°C for at least 24 hours.

## ■ Renovation

Tempera Paint can be overpainted several times. Waxed surfaces must first be thoroughly sanded.

## ■ Drying Times At Normal Climate

Safe to coat after approx. 8 hrs.

Due to the contained drying oils, the final strength of a tempera paint is only achieved after approx. 4 weeks.

## ■ Application Rates

1 kg Tempera Paint + 50 ml Safflower Oil covers approx. 10 m<sup>2</sup> per coat.

Accurate consumption values to be determined on site.

## ■ Package Sizes

	Content	Range
Article no. 503	2,2 kg	20m <sup>2</sup>

Tempera Paint Set contains:

2 x 1 kg Tempera Paint

2 x 50 ml Safflower Oil

Please refer to the valid price list for product prices.

## ■ Storage

If stored cool and dry, the paint powder can be kept for at least 3 years. Tip: Small quantities of mixed paint can be frozen for repair purposes.

## ■ Cleaning the tools

Immediately after use with water and Corfu Soap (article no. 226).

## ■ Disposing Leftover Product

Do not dispose of leftover product down the drain. Leftover product can be disposed of in the household waste when dry. Empty packaging can be recycled.

## ■ Hazard Classification

None, non-hazardous product.

## ■ EU VOC Value acc. to 2004/42/EC

Max. limit (Cat. A/a): 30 g/l (2010),

Product contains max. 1 g/l VOC.

## ■ Warning

Casein paints have a typical odour during processing, which disappears over time in a dry environment. Observe possible allergies to natural substances. Keep out of reach of children.

*The information above was determined based on our most recent experiences. Due to processing methods and environmental influences, as well as the varying nature of the substrates, liability for the general validity of the individual recommendations is excluded. Users must test the product prior to application to ensure it is fit for the designated purpose (sample coating).*

*This document is no longer valid if a new version is published or the product is modified. For the latest product information, please contact Kreidezeit directly or visit our website at [www.kreidezeit.de](http://www.kreidezeit.de).*