

# deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

## TECHNICAL DATA SHEET

4160 xxx | GAMBLIN CONSERVATION COLOR, PAN

[info@deffner-johann.de](mailto:info@deffner-johann.de) | +49 9723 9350-0

Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

# GAMBLIN CONSERVATION COLOR

## PRODUCT-INFORMATION

### Stable resin

Performing artificial aging, approximately 3,000 hours equivalent (about 62 years of exhibition time), shows that the samples retain their solubility in mild solvents and that the resin is aging stable.

### Completely saturated color

The high refractive index of the resin leads to a color depth as by aged oil paints.

### Solvents with high MAK values

Because the aldehyde resin is soluble in low polarity solvents, you can greatly reduce your exposure to strong solvents when retouching. If it becomes necessary at a later time to remove the paint, it can be dissolved in mild solvents again. This means higher protection for both restorer and object.

### Lightfast colors

Only pigments or pigment mixtures of highest lightfastness are used.

## TECHNICAL DATA

Size	1/2 Nap
Measurements	L x W x H in mm: 19 x 17,3 x 9,4
Volume	2,7 ml

## APPLICATION

GAMBLIN Conservation paints are used like watercolors. Instead of water, various solvents can be used depending on the desired drying time. The following solvents and mixtures are tested:

Art.-Nr.	Lösemittel / Solvent	Boiling point
2309 001	Ethylalkohol 99,7 % vergällt / Ethyl alcohol (Ethanol) 99,7 %, denaturated	78,3 °C
2312 000	Isopropanol / Isopropanol (isopropyl alcohol)	82 °C
2326 201	Dowanol PM / Methoxypropanol	120 °C
2309 110	Ethyllactat / Ethyl lactate C5H10O3 (Green Solvent)	154 °C

White spirits with more than 40% aromatics, e.g. a mix of:

Art.-Nr.	Lösemittel / Solvent	Boiling point
2316 000	Shellsol® A / Shellsol® A (Aromat)	148,9 - 182,22 °C
2316 100	Shellsol® T / Shellsol® T (Aromatenfrei)	187 - 213 °C

## Mediums

To increase the binder content and to obtain translucent paint coats, a medium of the same strength as the binder can be prepared:

Dissolve 10 g Laropal A81 (Art. No.: 4160 010) in 13 g of the desired solvent (see above). Store the solutions in a container with a tight lid.

## Varnishes

Varnishes with more than 15 % aromatics can dissolve the retouches made with GAMBLIN Conservation colors.

Regal Rez 1094 (Art. No.: 4160 055) or other varnishes in aliphatic solvents can even be applied with the brush.

**Note:** We strongly recommend testing the varnish and application methods for compatibility.

## PREPARATION

Solvents which are used by American conservators/restorers working with GAMBLIN Conservation Colors:

Cas.-Nr.	Product	Comment
67-63-0	99 % Isopropanol	Art.-Nr. 2312 000
	99,7 % Ethanol	Art.-Nr. 2309 001

Recommendations from European Conservators/ Restorers:

Cas.-Nr.	Product	Comment
1320-67-8	Methoxypropanol/ Dowanol PM	Art.-Nr. 2326 201 (Green solvent)
	Ethyl lactate	Art.-Nr. 2309 110 (Green solvent)
	Mixture of Ethyllactat and Isopropanol	1 : 1
123-42-2	Diacetonalkohol	Art.-Nr. 2301 000
	Mixture of Alkohol, and Diacetonalkohol	2 : 3

From producer recommended Solvents:

Cas.-Nr.	Product	Comment
70657-70-4	Methoxypropanol/ Dowanol PM	Art.-Nr. 2326 201 (Green solvent)
123-86-4	n-Butyl acetate	Art.-Nr. 2305 001 (Green solvent)
	Testbenzin	40 % Aromaten

GAMBLIN Conservation Colors dries with a matt surface. More solvent makes the color even matter.

**Final Picture Varnishes:**

Any varnish, utilizing the proper technique, can be applied to Gamblin Conservation Colors.

- Paraloid B 72 or other varnishes that are mixed in 100 % aromatic solvents (or any combination above 15 %) may disrupt the retouching if it is vigorously brush applied. Such varnishes may be spray applied.
- Regal Rez 1094 or MS2A (varnish resins that can be dissolved in aliphatic solvents) may be brush applied over the Gamblin Conservation Colors.

**Note:** We strongly recommend testing varnishes and application techniques over the new retouching paints on a mock-up before using them in a complete treatment.

**STORAGE CONDITIONS**

Best before: no limitations at room temperature and without direct sunlight.

**Obtainable by Deffner & Johann GmbH:**

Art.-Nr.	Product	Description
4161 970	GAMBLIN Conservation Classic Colors-Set	12 Colors
4161 965	GAMBLIN Conservation Classic Colors-Set	24 Colors
4161 960	GAMBLIN Conservation Impressionist Colors-Set	12 Colors
4161 975	GAMBLIN Conservation Impressionist Colors-Set	24 Colors
4161 980	GAMBLIN Conservation Modern Colors-Set	12 Colors
4161 985	GAMBLIN Conservation Modern Colors-Set	24 Colors
4160 010	GAMBLIN Laropal A 81	100 g
4160 056	GAMBLIN Laropal A 81	250 g
4160 055	GAMBLIN Regal Rez 1094	100 g
4160 012	GAMBLIN Regal Rez 1094	250 g
4160 025	GAMBLIN PVA Medium	250 ml
4160 100	GAMBLIN PVA Medium	1000 ml