

## GARDEN SATIN

### Series 3794

Water-based, satin-finish, acrylic enamel of superior quality for interiors and exteriors



#### TECHNICAL FEATURES

Odorless water-based satin-finish enamel of superior quality for interiors and exteriors, based on non-yellowing acrylic resins, titanium dioxide and special additives that give it excellent flow and brushability. Once cross-linking has taken place, it forms a tough film with excellent resistance to atmospheric agents even in the case of strong colors. The product is recommended as a substitute for synthetic solvent-based enamel. Available in a wide range of colors.

#### APPLICATION FIELD

Water-based acrylic enamel ideal as a high quality satin-finish final coat for the protection of wooden or iron fixtures and objects if pre-treated with a suitable primer and of masonry supports such as plaster and prefabricated panels. The product is also ideal for painting radiators.

Classified according to EC Regulation 2004/42/EC - Dlgs 161/06 - Cat. d-BA) interior/ exterior trim and cladding paints for wood and metal. EC LIMIT VALUE 130 g/l (2010) - CONTENT 54 g/l

### GENERAL INFORMATION

**Nature:** Water-based

**Intended use:** For indoors and outdoors

**Packages:** 0,75 l - 2,5 l - 10 l

**Tinting Service:** Tinting service with water-based colorants Series 1195

**Colors ready in stock:** White

**Color fans and color cards:** Ral 841 GL, Ral Design, Ncs 1950, Colorado Art, Exterior

**Suitable Substrates:** Civil plaster, Smooth surface with stucco finishing, Plaster, Plasterboard panels, Wood, Iron, Galvanized steel, Cast iron radiators

### SUBSTRATE PREPARATION

To be colored, the substrate must be healthy, dry, clean, cohesive and seasoned, free from moisture stains, traces of grease and dirt. It is advisable to check for any chalking of the plaster or pre-existing paints by manual or mechanical rubbing and to verify the hypothetical presence of residual moisture in the substrate by using a hygrometer.

#### The curing time of the support

The curing time of the substrate varies according to the type of material used for its preparation. This interval is necessary for the supports to reach an adequate degree of carbonation. The curing of interior substrates (including lime-based plasters, cementitious, premixed, civil and smoothing compounds for restoration) is approximately 30 days, while external substrates (concrete, fiber cement and prestressed panels) require a minimum curing of 90 days.

#### The influence of the substrate on the color

The pre-treatment, the pH and the equalization of the support to be painted, especially in the presence of discontinuities, new patches and/or grouting, can negatively affect the coating system and alter the color shortly after application. Unsightly white or chromatic stains may occur due to the reaction of the pigment part with the alkalinity of the support. The presence of discontinuous, non-homogeneous supports can generate phenomena of different color perception due to the different texture of the painted surface.

#### New masonry interior support

Remove the dust and fragments of plaster that are not perfectly adherent with a soft brush, then level the imperfections with Velostuc paste putty or with Leonstuc powder putty. When the substrate is perfectly dry, it is necessary to sand and insulate the entire surface with a coat of Acrifix Series A005 or with Fissativo Acrilico ISF Series 1356. When the surface is dry, apply two coats of Garden Satin Series 3794.

#### Already painted masonry interior support

If the support has been painted with distemper, washable paint or breathable paint and the pre-existing paint is well adherent, it is necessary to insulate the entire surface with a coat of fixative Acrifix Series A005 or Fissativo Acrilico ISF Series 1356. When the surface is dry, apply two coats of Garden Satin Series 3794. If the existing paint is not well adherent or chalking, remove the loosening and peeling parts by scraping or sanding, fill the imperfections with Velostuc paste putty or Leonstuc powder putty and sand. Once dried, it is necessary to sand and insulate with one coat of fixative Acrifix Series A005 or with Fissativo Acrilico ISF Series 1356. When the surface is dry, apply two coats of Garden Satin Series 3794. If the surface has been painted with an acrylic or synthetic enamel, sanding lightly before applying two coats of Garden Satin Series 3794.

#### Plaster and plasterboard support

To obtain a good adhesion of the paint, it is necessary to sand the grouted joints of the panels before applying the fixative. The walls, both new and already painted, must be previously treated with a coat of fixative Aurora-fix Series 1360. To obtain an optimal opacity, before applying two coats of Garden Satin Series 3794, apply a coat of the water-based primer Prima Mano series 1349 on the dry surface.

#### Smooth support with stucco finishing

The surface must be carefully sanded with a suitable abrasive disc. Once the operation has been completed, it is recommended to carefully clean the walls from any residual dust. Fill if necessary, sand and insulate the support with a coat of fixative Aurora-fix Series 1360. To obtain an optimal opacity, before applying two coats of Garden Satin Series 3794, apply a coat of the water-based primer Prima Mano series 1349 on the dry surface.

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### SUBSTRATE PREPARATION

#### **New masonry exterior support**

In case of traces of dust, dirt or fragments of plaster that are not perfectly adherent, brush carefully, fill large imperfections with Betonix putty and then sand. When the substrate is perfectly dry, sand and then it is necessary to insulate with a coat of Imprimate Series 1358 fixative or with Aurora-fix Series 1360 consolidating fixative. After drying, apply two coats of Garden Satin Series 3794.

#### **Already painted masonry exterior support**

When the surface is dry, apply two coats of Garden Satin Series 3794. If the support has been coated with a washable latex paint and the existing paint is well adherent, it is necessary to insulate the entire surface with a coat of fixative Imprimate Series 1358. When the surface is dry, apply two coats of Garden Satin Series 3794. If the existing paint is not well adherent or is chalking, remove the peeling parts by brushing or with a suitable pressure washer. Fill imperfections with putty Betonix. When the surface is perfectly dry, sand and then insulate with a coat of fixative Imprimate Series 1358. When the surface is dry, apply two coats of Garden Satin Series 3794. If the surface is coated with acrylic or synthetic enamel, it is necessary to sand before applying two coats of Garden Satin Series 3794.

#### **Support invaded by algae, mold and unsightly dark spots**

Treat the surface with a coat of Risanante K28 Series 0885 (sanitizing solution for dirty and contaminated surfaces); if the substrate is particularly stained, apply a second coat of the product. Wait at least 24 hours and then mechanically remove the black spots and follow the instructions above before applying Garden Satin Series 3794. To avoid the formation of dark spots in a short time, Garden Satin Series 3794 must be added with Biocid Series 0080 for indoors, or ADF 85 Series 0085 for outdoors.

#### **New wooden support**

The new wooden support must be dry and clean and, if the surface is rough, it is advisable to sand it. Apply a coat of Garden Opalina Series 1375. After 12 hours of drying, the primer can be sanded and the product Garden Satin Series 3794 can be applied.

#### **Already painted wooden support**

Verify the adhesion of the pre-existing paints and, if necessary, remove any peeling parts. Fill imperfections with wood filler for indoors or outdoors, depending on the final destination of the product, sand with fine sandpaper (max 120) and then apply a coat of water-based, acrylic cementite Garden Opalina Series 1375. After 12 hours dry, sand and apply two coats of Garden Satin Series 3794. If the substrate is coated with polyurethane, acrylic or synthetic enamels, it is necessary to sand before applying two coats of Garden Satin Series 3794.

#### **New iron support**

The support must be clean, dry, degreased, free from rust and, if intended for outdoor use, previously treated with a suitable anticorrosive primer; if the product to be coated is intended for internal use, the application of the water-based primer Garden Primer Series 3785 is recommended. After 24 hours drying, it is possible to apply two coats of Garden Satin Series 3794.

#### **Already painted iron support**

Verify the proper adhesion of the existing paints and, if necessary, remove the peeling parts; sand and apply a coat of water-based primer Garden Primer Series 3785. After 24 hours' drying, apply two coats of Garden Satin Series 3794.

#### **Radiators**

New or already painted cast iron radiators: the support must be treated with a suitable primer, to avoid that the application of a water-based product causes rust. Aluminum radiators already painted with water-based synthetic or acrylic enamels: the substrate must be dry, clean and free of dust, grease, etc. Verify the proper adhesion of the pre-existing paint and, if necessary, remove the peeling parts and sand. If the sanding operation reveals the metal, the substrate must be treated with a coat of primer suitable for light alloys Monoprimer Series 0710. After drying, apply two coats of Garden Satin Series 3794. New aluminum radiators: the support must be dry, clean, free of dust, grease, etc., and treated with a coat of primer suitable for light alloys Monoprimer Series 0710. After drying, apply two coats of Garden Satin Series 3794.

### ENVIRONMENTAL CONDITIONS



ENVIRONMENT  
TEMPERATURE

5°C - 35°C



SUBSTRATE  
TEMPERATURE

5°C - 35°C



RELATIVE  
HUMIDITY

60 %



SHELF LIFE

Store 1 year in original sealed packaging at +5/+35°C. Protect from frost.

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### TECHNICAL DATA



APPLICATION



DILUTION



INDICATIVE  
SPREADING RATE



THEORETICAL  
AVERAGE  
CONSUMPTION



GLOSS



WET FILM  
THICKNESS  
EACH COAT



DRY FILM  
THICKNESS  
EACH COAT



N° OF COATS

STANDARD PRODUCT	Brush, Roller, Spray	5% by volume with tap water	12 m <sup>2</sup> /l each coat at the dry film thickness of 30 μ	100 g/m <sup>2</sup>	30 - 43 gloss	85 μ	30 μ	2
ISF PRODUCT	Brush, Roller, Spray	5-10% by volume with tap water	12 m <sup>2</sup> /l each coat at the dry film thickness of 30 μ	108 g/m <sup>2</sup>	30 - 43 gloss	88 μ	30 μ	2

### CLASSIFICATION UNI 13300



WET ABRASION  
RESISTANCE



GLOSS



OPACITY



GRANULOMETRY



WASH  
RESISTANCE



DIRT PICK-UP  
RESISTANCE



MOULD  
RESISTANCE



FIRE-RESISTANCE

STANDARD PRODUCT	Class 1	24,6 GU at 60° satin	Class 2 - 98,40% - spreading rate 6,0 m <sup>2</sup> /l	Fine particle size	-	DL < 3 very low	-	-
ISF PRODUCT	Class 1	30 GU at 60° satin	Class 2 - 98,50% - spreading rate 6,0 m <sup>2</sup> /l	Fine particle size	-	DL < 3 very low	-	-

### DRYING



OVERCOATING INTERVAL



AIR DRYING



DRY TO TOUCH



DRY THROUGH

5 hours

20°C

1 - 2 hours

24 hours

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### WARNINGS AND RECOMMENDATIONS

- Mix the product thoroughly before use.
- Apply the product at an external temperature not lower than +5°C and higher than +35°C.
- Do not apply in the presence of direct sun, strong wind, rain or with risk of frost in the 24 hours following application.
- Protect the surface from driving rain for 24-48 hours after the application to avoid the resolubilization of the product.
- The product applied in optimal conditions (5°C-35°C) ends the hardening phase after 8-10 days; during this period the exterior painted walls, if exposed to adverse weather conditions (fog, high relative humidity) or if they are washed away with rain water, can manifest migration phenomena of translucent and sticky substances (snail trails). This phenomenon, normal and temporary, does not cause defects in the performance of the finish and can be removed with water washing or it will disappear following subsequent rain events.
- For dilution, use mains water to avoid mold formation problems.
- The application of the product carried out in unsuitable atmospheric conditions negatively affects the drying times, compromising the optimal achievement of the aesthetic features and performance.
- In the presence of large construction sites, please note that the supply order must be unique, limiting any subsequent requests for additional cans, which could create color inconsistencies with the main batch.
- In winter, the applicator must stop working 3-4 hours before sunset to give the product the possibility of being dry-to-touch, in order to avoid the absorption of humidity during the night.
- Do not apply the product on foggy days.
- The color match is evaluated after the application and drying of the product.
- After having tinted the product with the suitable colorants, mix within a short time.
- In order not to incur financial penalties after coloring a product with a tinting machine, send the MSDS and apply the appropriate legal labelling printable using the Databook P&C tinting software.
- If the product is colored in very saturated shades with low opacity (yellow, orange, red, green and blue) or is to be applied on supports already painted with very dark colors, the application of a white or matching pigmented primer is suggested after the coat of fixative. The use of the primer grants the mirror effect improving the opacity of the final coat and the color reflection and granting better homogeneity of the painted surface.
- The wrong application of the fixative can negatively influence the application of the final coat. If the fixative does not penetrate correctly into the substrate, the first coat of paint may be limitately absorbed by the surface. In these cases, it may be necessary apply a third coat of paint to obtain a homogeneous finish. On the other hand, if the fixative penetrates too much, the top coats could suffer from the "burning" effect, which could show unsightly bleaching spots, marks of roller or brush strokes, evident discolorations and patches of color.
- Poor dilution of the product could negatively affect the film formation, highlighting areas with different flatness and unsightly translucent roller marks. Excessive dilution reduces the opacity highlighting darker overlaps, profiling and rolling marks.

### SUPPLY TECHNICAL DATA

PARAMETER	STANDARD PRODUCT	ISF PRODUCT	TEST METHOD
SPECIFIC WEIGHT	1.1 - 1.3 g/ml	1.1 - 1.3 g/ml	ISCOL 2
GLOSS	30 - 43 gloss 60°	30 - 43 gloss	ISCOL 6
VISCOSITY	2500 - 2750 mPa.s (20°C) Rod 3 Speed 20	2000 - 3000 mPa.s (20°C) Rod 3 Speed 20	ISCOL 1
% SOLID CONTENT BY WEIGHT	51 ± 2%	49 ± 2%	-
% SOLID CONTENT BY VOLUME	38 ± 2%	35 ± 2%	-
VOC	54 ± 2 g/l	11.6 ± 2 g/l	-
VOS	4.2 ± 2%	0.9 ± 2%	-

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### TINTING SERVICE

BASE	BASE PACKAGING	COLORED PACKAGING	% MIXING RATIO
BINDER	0,637 l 2,125 l 8,5 l	0,75 l 2,5 l 10 l	85 - 15
WHITE BASE W2	0,727 l 2,425 l 9,7 l	0,75 l 2,5 l 10 l	97 - 3
WHITE BASE	0,75 l 2,5 l 10 l	0,75 l 2,5 l 10 l	100 + Max 1%

### SUPPLY SPECIFICATION

Odorless, satin-finish, high quality, water-based enamel for interiors and exteriors, mainly composed of non-yellowing acrylic resins, titanium dioxide and special additives that grants excellent flow and brushability. Specific weight from 1,10 to 1,30 g/ml, theoretical spreading rate: 10 m<sup>2</sup>/Kg - 12 m<sup>2</sup>/l (each coat at the dry film thickness of 30 micron). Supply and installation of the material € ..... for sqm

### NOTES

**Cleaning tools:** Wash rollers, brushes and all the tools used for the application thoroughly with tap water immediately after use, avoiding contact with surfaces potentially contaminated by bacteria (walls, floors, cardboard, etc).

**Sanitary labelling:** Handle the product with care. Make reference to the MSDS and respect the national and local regulations in force concerning personal and environmental safety.

**Additional notes:**

- The data reported in this data sheet have been obtained using only Franchi&Kim production materials (coatings, hardeners, thinners) applied in accordance with the specifications described. The improper use of thinners and/or hardeners, different from those suggested or not manufactured by Franchi & Kim, can compromise application features, performances and final curing of the product. Therefore, in case of mixed coating systems with Franchi & Kim and other brand products, the conformity of the results with the parameters indicated in the technical data sheet cannot be granted.
- The times related to pot life and drying intervals refer to a standard temperature of 20°C, except when it is expressly indicated.
- The spreading rates are theoretical and only indicative; they can be influenced by the application of the fixative, color and application method. Practical application test is suggested.

The information contained in this technical document is correct and accurate to the best of our knowledge, and should therefore be considered reliable. In any case, they cannot imply a guarantee on our part, as certain factors such as the preparation of the product and the substrate, the conditions of use, application, drying and overcoating, as well as the state of conservation of the products, are outside our strict control. It is responsibility of the user to verify the suitability of the products for the specific use, as well as the correct and precise execution of the work in accordance with the content of the technical data sheet, the recommended coating system and preparation of the support. For further information regarding the method of application and conditions of use, it is recommended to contact our technical support service. It should be noted that the packaging image could have a placeholder purpose and could therefore be an indicative reference. The packages indicated may vary according to the additions or changes of the annual price lists. This document replaces all previous versions. In any case, it is advisable to refer to the annexes with the explanatory notes to better understand and deepen the parameters of the technical data sheet. The updated edition, available on the website [www.franchi-kim.it](http://www.franchi-kim.it) in the section technical data sheets of the download area is to be considered the only ones to consult as reference.

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