

PRISMACRYL

Series 1761

One-coat, satin-finish enamel for galvanized steel and light alloys



TECHNICAL FEATURES

1K, one-coat, satin-finish enamel formulated with acrylic resins and special additives. The product is multi-support by virtue of its applicability on several substrates such as ferrous surfaces, galvanized steel and some thermoplastic materials.

APPLICATION FIELD

It is ideal for the maintenance specially formulated to effectively protect works of different materials and above all galvanized steel, without the need for preventive primers. It is ideal for the maintenance of light civil carpentry objects. The product can be used for both indoor and outdoor applications, as it provides good protection against atmospheric agents.

Classified according to EC Regulation 2004/42/EC - Dlg 161/06 -Cat. i-BS) one-pack performance coatings. EC LIMIT VALUE 500 g/l (2010) - CONTENT 434 g/l

GENERAL INFORMATION

System: One pack - 1K

Nature: Solvent-based

Packages: 1 kg - 3 kg - 20 kg

Tinting Service: Tinting service with solvent-based colorants Series 0615

Suitable Substrates: Iron, Cast iron, Galvanized surfaces, Thermoplastics (ABS, PVC, PC), Fiberglass and Thermosetting plastics

Color fans and color cards: Ral 841 GL, Ral Design, Ncs 1950, ColoradoMix 1040, Colorado Box 2.0

SUBSTRATE PREPARATION

The surface pre-treatment process, to be carried out prior to the application of the coating product, is of considerable importance in order to obtain and guarantee optimal and long-lasting results and performance over time. The substrate must be perfectly clean, dry, degreased and free from rust and/or calamine. It is also advisable to make sure that the substrate is free from particles and other paints that are not perfectly adherent or incompatible with the coating of paint that will be applied. For the purpose of a correct and complete preparation, it is recommended to consult, where necessary, the explanatory notes attached to the technical data sheet, the painting manual and the technical assistance service of the Research & Development Laboratory. The explanatory notes, specifically, depending on the type of surface and the result to be obtained, indicate different pre-treatment methods such as degreasing, manual and mechanical cleaning using special equipment, mechanical preparations (scraping, sanding, tapping, brushing), light or accurate sandblasting, shot blasting, shot peening and wet sandblasting (or hydro sandblasting).

The supports made of galvanized steel must be clean, dry, degreased and free from "white rust". On particularly bright galvanized steel sheet, carry out a preliminary sanding before coating.

APPLICATION

Application conditions

The application of the coating product is subject to various factors such as environmental conditions (among which it is necessary to mention temperature, humidity and ventilation), geometry and laboriousness of the products to be painted, surface profiles and thicknesses to be applied. The application system to be used is of particular importance as, depending on the type of system, various parameters may vary including the transfer efficiency of the coating product, the overspray, the aesthetic appearance obtained, the sagging stability of the product and the ease or complexity of application. For these reasons, prior to applications on systems and lines of considerable scope, it is advisable to contact the technical assistance service in order to carry out the inspection and the necessary surveys for a consultancy activity relating to the application methods and the definition of ad hoc technical details on the plant in question.

EQUIPMENT	VISCOSITY	NOOZLE	PRESSURE	NOTES
AIRBRUSH - CUP GUN	30" - 60" Ford Cup 4	1,4 - 1,7 mm	3,5 - 4 bar	-
ROLLER AND BRUSH	-	-	-	Ready to be used

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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.

TECHNICAL DATA



THEORETICAL
AVERAGE
SPREADING RATE

7 m²/kg
each coat at the
dry film thickness
of 50 µ



APPLICATION

Brush, Spray,
Roller



DILUTION

Ready to be
used; 1-5% with
Synthetic Thinner
90 Series 0955



GLOSS

25 - 35 gloss



WET FILM
THICKNESS
EACH COAT

100 µ



DRY FILM
THICKNESS
EACH COAT

50 µ



N° OF COATS

1 or 2 coats to
achieve the total
desired thickness



TOTAL DRY FILM
THICKNESS

70 µ



THEORETICAL
AVERAGE
CONSUMPTION

131 g/m²

DRYING



OVERCOATING
INTERVAL

12 hours



AIR DRYING

20°C



DUST-FREE
DRYING

30 minutes



DRY TO TOUCH

2 - 3 hours



DRY THROUGH

24 - 48 hours



FULL CURE

7 days



FLASH OFF

-



STOVING DRYING

-



RESISTANCE TO
TEMPERATURE

80°C

WARNINGS AND RECOMMENDATIONS

- The degree of gloss can be influenced by the chosen color and the thickness applied. Unlike glossy final coat, resistance to scratching and polishing is lower.
- The color match is evaluated after the application and drying of the product. It is recommended to carry out practical tests, such as spreading or applying the colored product on small surfaces made of suitable material, before proceeding with the product painting.
- After having colored the product with the suitable colorants, mix it in a short time.
- In order not to incur financial penalties, after having colored a product with tinting machine, send the MSDS and apply the appropriate legal labelling printable using the Databook P&C tinting software.
- For DTM, one coat, low opacity colored products (yellow, orange, red), to check the shade, apply two coats of 100 µ w.f.t. of the product.
- In winter, the applicator must stop working 3-4 hours before sunset in order to ensure the product is out of touch and avoid the absorption of humidity during the night.
- Do not apply in foggy days.
- Do not apply the product at ambient temperatures below +5°C.
- The product can be over-coated with itself (diluted with Synthetic Thinner 90 Serie 0955) 12 hours after the application. Since the product is reversible, the application of the second coat softens the first and facilitates the adhesion.
- The product is not suitable for direct contact with solvents and/or cleaning mixtures because the film resolubilizes.
- Direct outdoor exposure of saturated and bright colors (green, red, blue) can cause slight dulling, without compromising the performance of the product.
- Being the product of thermoplastic nature, in case of direct radiation, intense shades become plastic.
- For applications on iron, it is recommended to use a suitable anticorrosion primer to increase the anticorrosion properties.
- The product can be applied by roller and brush only on small areas and parts of the product to be coated, for maintenance purposes and in case of moderate needs and expectations in relation to the final aesthetic finish.

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SUPPLY TECHNICAL DATA

Composition: Acrylic resins

Reference color: White

% solid content by weight: $67 \pm 2\%$

% solid content by volume: $50 \pm 2\%$

VOC: 434 ± 2 g/l

VOS: $33 \pm 2\%$

PARAMETER	DATA	TEST METHOD
VISCOSITY	2500 - 3000 mPa.s (20°C) Rod 3 Speed 20	ISCOL 1
SPECIFIC WEIGHT	1.15 - 1.25 g/ml	ISCOL 2
GLOSS	25 - 35 gloss 60°	ISCOL 6

TINTING SERVICE

BASE	BASE PACKAGING	COLORED PACKAGING	% MIXING RATIO
BINDER	0,8 kg 2,4 kg 16 kg	1 kg 3 kg 20 kg	80 - 20

NOTES

Cleaning tools: At the end of the application, carefully wash the spray guns, the painting systems and the containers with a suitable thinner and store the tools dry to avoid encrustations.

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 gloss indicated and tested may change during the application phase because it can be influenced by the following factors: realized color, thickness, number of coats, environmental conditions, thinner and hardener used if different from those listed in the technical data sheet.
- The spreading rates are theoretical, indicative and intended per coat as they can be influenced by the color and the application system. 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.com 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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