

METALLOID

Series 0593

Transparent protective coat for metals



TECHNICAL FEATURES

Semi-matt, red, low-thickness protective coat based on nitrocellulose and special synthetic resins for the temporary protection of metals.

APPLICATION FIELD

Product suitable for the temporary protection of metal products: turned parts, threads, flanges, pulleys and articles of similar nature.

GENERAL INFORMATION

System: One pack - 1K

Nature: Solvent-based

Packages: 5 l

Colors ready in stock: Red

Suitable Substrates: Iron, Cast iron

SUBSTRATE PREPARATION

As this is a finishing product, in case of outdoor application or where anticorrosive protection is required, it is necessary to first apply a suitable primer. The preparation of the substrate must be carried out with reference to what is indicated in the specific technical data sheet of the appropriate primer. In order to investigate and select the ideal coating system, it is advisable to consult the technical assistance service or the commercial support in order to obtain the precise indication of the suitable primers to be used according to the type of product and the support to be painted. Finally, it is essential to respect the overcoating times of the primer.

In case of polished brass supports, the surface must be free of any residual abrasive paste. Carry out a subsequent operation of immersion or ultrasonic pickling. The product can be removed using Anti-Blooming Nitro Thinner Series 0970 or similar.

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	40" - 60" Ford Cup 4	1,3 - 1,5 mm	3,5 - 4 bar	-

ENVIRONMENTAL CONDITIONS



ENVIRONMENT
TEMPERATURE

5°C - 35°C



SUBSTRATE
TEMPERATURE

5°C - 35°C



RELATIVE
HUMIDITY

60 %



SHELF LIFE

Store 2 years in original sealed packaging
at +5/+35°C.

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TECHNICAL DATA



THEORETICAL AVERAGE SPREADING RATE	APPLICATION	DILUTION	GLOSS	WET FILM THICKNESS EACH COAT	DRY FILM THICKNESS EACH COAT	N° OF COATS	TOTAL DRY FILM THICKNESS	THEORETICAL AVERAGE CONSUMPTION
6,6 m²/l each coat at the dry film thickness of 15 µ	Spray	Ready to be used	-	150 µ	15 µ	1 or 2 coats to achieve the total desired thickness	30 µ	138 g/m²

DRYING



OVERCOATING INTERVAL	AIR DRYING	DUST-FREE DRYING	DRY TO TOUCH	DRY THROUGH	FULL CURE	FLASH OFF	STOVING DRYING	RESISTANCE TO TEMPERATURE
2 hours	20°C	5 - 10 minutes	1 - 2 hours	12 - 24 hours	3 days	-	-	80°C continuous exposure

WARNINGS AND RECOMMENDATIONS

- Being a finishing product, it has no anticorrosive properties.
- In the presence of high concentrations of humidity in the air it is possible that during the drying phase the film tends to opacify. To overcome this drawback it is necessary to use small percentages (3-5%) of 0996 Series Anti-Whitening Additive.
- The product is not resistant to solvents in general.
- A long stay in the external environment can give rise to film bloom and chalking phenomena.

SUPPLY TECHNICAL DATA

Composition: Modified nitrocellulose
Reference color: Red
% solid content by weight: 14.6 ± 2%
% solid content by volume: 10 ± 2%
VOC: 784 ± 2 g/l
VOS: 85 ± 2%

PARAMETER	DATA	TEST METHOD
SPECIFIC WEIGHT	0.9 - 0.95 g/ml	ISCOL 2
VISCOSITY	250 - 450 mPa.s (20°C) Rod 2 Speed 20	ISCOL 1

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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, other than those mentioned 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.
- All times indicated in the drying section are to be intended at the temperature of 20°C, unless otherwise specified.
- 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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