

## 5006 SESTRIDUR MIOX METAL GRAPHITE

Ferromicaceous acrylic enamel with one hand maintainable



### Destination

Polyurethane acrylic finishing coating which can also be applied directly to rigid steel, galvanized steel, aluminum, PVC and ABS surfaces.  
Suitable for painting cycles on external surfaces of tanks, oil pipelines, chemical plants, various machinery, concrete mixing plants and all the iron works that you want to protect even with an appreciable aesthetic appearance.  
Suitable for the protection of reinforced concrete. Repaintable even after long exposure to atmospheric conditions.  
Resistant to splashes of mineral and vegetable oils, white spirit, paraffin products and aliphatic petroleum derivatives.  
It also polymerizes at temperatures of  $-5^{\circ}\text{C}$ .  
Compliant with ENEL P 20 specification.  
Compliant with D.L. 161 for use in the construction sector.

### Characteristics

Good anticorrosive properties  
Good weathering resistance  
Good abrasion resistance  
Excellent color retention  
Good water resistance  
Resistant to no aggressive chemical products sprays

### Recommended surface and temperature conditions

Avoid applications at room temperature under  $+5^{\circ}\text{C}$  or over  $+35^{\circ}\text{C}$  and relative room humidity over 80%. Verify surface suitability according to humidity degree with hygrometer. Support temp: min:  $+5^{\circ}\text{C}$  - max  $+35^{\circ}\text{C}$ .  
WARNING: the complete film polymerisation comes after 7-10 days at  $T=20^{\circ}\text{C}$  e U.R.60%  
Avoid applications with superficial condensation or under the direct sun action  
In enclosed spaces, properly ventilate the area during application and drying

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### technical data sheet

Revision 1 fro 04/11/2020

#### Reccomendations

WARNING: the high relative humidity (max. 95% ) while application and polymerisation durante l'applicazione e la polimerizzazione, non influenza la qualità del rivestimento, ma ne rallenta notevolmente il processo; è pertanto meglio evitare condizioni estreme.

WARNING: for indoor applications aerate the environment and wear the adequate individual protection medium

For the two components products thinner must be added only after have mixed the components

#### Application cycle

<b>Support</b>	Iron	Galvanised	Aluminium	PVC / ABS
<b>Recommended</b>	YES	YES	YES	YES
<b>Recommended hardener</b>	820/C	820/C	820/C	820/C
<b>recommended support preparation</b>	Sandblasting Sa2,5	Decaphos	Sanding	5576 Hand Degreaser

#### Recommended - Finishes

**Notice** ALTERNATIVE HARDENERS: 5012/C - 1900/C.  
ATTENTION: DO NOT USE THE 5042/C HARDENER.

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#### Use



Airspray



Airless



Brush



Roll

#### Thinner

CS/154 or CS/3850

#### Tools' cleaning

CS/2

#### Instructions for use

- On direct metal degrease and eliminate impurities; on previous applications of epoxy or polyurethane primers, roughen and clean from all possible contaminations.
- On reinforced concrete, brush the surface to be painted.

HARDENER	%WEIGHT	RATIO IN VOLUME
820/C	20	4:1
5012/C	15	5:1
1900/C	20	4:1

During application and curing, a substrate temperature down to -5 °C is acceptable, as long as the substrate is not wet or frozen.  
The substrate temperature should be at least 3 °C above the dew point.

Application conditions	Product	Surface	Environment	Relative humidity
Optimal	15-29 °C	15-29 °C	15-29 °C	35-85%
Min.	5 °C	-2 °C	-5 °C	0%
Max.	38 °C	43 °C	43 °C	85%

Curing Table	Surface temperature	Handling	Full polymerization
	-5 °C	48 hours	20 days
	4 °C	20 hours	14 days
	10 °C	12 hours	10 days
	24 °C	5 hours	6 days
	32 °C	4 hours	4 days

Pot life with 820/C (at application viscosity)	10 °C	8 hours
	20 °C	6 hours
	30 °C	4 hours
	40 °C	2 hours

**Notice** If it is necessary to improve the hardening speed, the solution 072 can be used until 5% by weight (calculated on the quantity of part A). Be careful because the pot-life will be lightly reduced.

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#### Application process

##### Airless spray

Thinner (% Weight)	CS/154 or CS/3850	5 - 10
Noozle diameter (mm/inch)	0,23 - 0.43	
Noozle pressure (Atm/Mpa)	130 - 150	

##### Conventional spray

Thinner (% Weight)	CS/154 or CS/3850	10 - 20
Noozle diameter (mm/inch)	1,0 - 1,5	
Noozle pressure (Atm/Mpa)	3 - 4	
Application viscosity ASTM 4 ( s )	18 - 20	

##### Brush/Roll

Thinner (% Weight)	CS/3850	0 - 5
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**Notice** Well mix before use. The painitng temperature must be over 15°C; otherwise more thinner will be necessary to obtain the desired application viscosity, with possible application defects.

#### Tin aspect

Liquid

#### Color

Paints achievable with MCS tintometric system

Coarse-grained metal

Fine-grained metal

#### Cleaning solvent

CS/2

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### Characteristics and technical informations

Data observable at T=20°C and 60% relative humidity

### TECHNICAL DATA

Induction time (minutes)	None
Pot life at 20°C ( h )	5 (820/C - 5012/C) ; 2 (1900/C)
Mass density ( kg/l )	1,40
Solids content by weight ( % )	65
Solids content by vol. ( % )	48
Brilliance ( % )	25 - 30
Recommended dry film thickness (dtf) ( µm )	40 - 70 ; 80-90 DTM
Theoretical spreading rate ( mq <sup>2</sup> /kg )	6,8 x 50 µm DFT
Complete polymerisation - days	7
Flashpoint ( °C )	> 21
Temperature resistance ( °C )	-

**Notice** Data refer to the product mixed with 820/C to 20 °C.

### Air drying

<b>Dust free (minutes)</b>	-
<b>Touch dry ( h )</b>	1
<b>Dry through ( days )</b>	-

**Notice** Drying time can be reduced (up to 50%) using the accelerator 072 solution, or the catalyst 1900/C

### Overcoat for air drying

<b>Recommended overcoat after min. ( h ):</b>	12
<b>Recommended overcoat after max. ( days ):</b>	Unlimited

**Notice** it is possible to drying in the oven after air drying for 15'-20 ' then drying for 30 'at 80 ° C.

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### Further technical data

#### CHEMICAL RESISTANCE TESTS

Salt spray (ISO 7253) after 500 hours of exposure:  
(ISO 4628-3) Rust Ri = 0  
(ISO 4628-2) Blistering Density = 0

UVCON (ISO 11507) (ASTM G154 Cycle 2 UVB-313) after 500 hours of exposure:  
(ISO 7724-3) DE max = 2.0

#### MECHANICAL TESTS

Konig Pendulum Hardness (ISO 1522): 130 - 150 seconds

Cupping test (ISO 1520): 7 - 8 mm

Impact test (ISO 6272): 50 cm

Adhesion (ISO 2409): Class 0

The tests were carried out on completely polymerized films (with a thickness greater than 50 microns after at least 7-10 days after application at + 20 °C).

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#### STORAGE (dry and cool place)

12 months in tightly closed package, protected from frost and heat sources

#### Storage temperature (°C)

+5 ÷ +30

#### Unit size

20 kg

### Safety instructions

Products must be treated with attention, avoid the skin contact. Users will have to follow the actual laws. Actions as wet sanding, sanding, removal with flame, etc. of old painting coats can generate dust and dangerous smokes. Work in well aereated areas and wear the adequate individual protection means.

In Italy Decree 303 and 547 concern the rules valid for the application operations. For further information concerning the right product elimination, storage and manipulation please consult the relative taiechnical data sheet.

Data in this technical sheet are only given for information and are the result of laboratory tets and practical experience, However, the factory is not responsible if the product isn't used under its direct control.

SESTRIERE VERNICI Srl Technical Assistance is available to give all information necessary for a correct use of the product.

Notice: Our laboratories have checked the data mentioned in this technical data sheet; this data is based on our present knowledge and experience and is intended for use by personnel having suitable training to apply the product on suitable surfaces and under normal operating conditions. In view of the variations in conditions of use and equipment, no warranty is given or responsibility taken for the results obtained. Users should satisfy themselves of the suitability of the product for their purpose and for use on their own equipment. For any doubt or problem please contact our Technical Assistance Service

However SESTRIERE VERNICI Research and Development Department is at your disposal for any further information about a correct use of the product.

The product achieves the compete polymerisation after at least 7 days at 20°C

The final user is recommended to verify, through his own methods, the conformity of the product to the expected performances. This technical data sheet version cancels and substitutes all the previous ones.