

4970 PRIME COAT FZ

Two components zinc phosphate epoxy product



technical data sheet

Revision 2 fro 06/12/2017

Converter name

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Destination

Extremely versatile use: industrial vehicles, agricultural machines, different metal surfaces, (trussing, external pipes). Contains zinc phosphate as anticorrosive pigment. Doesn't contain soluble extenders (carbonates). It allows a low finishes absorption. Applicable in electrostatic . The hardened film can support a wide range of temperature changes -20°C + 70°C without losing flexibility and adhesion.

Characteristics

Excellente aticorrosive properties

Excellent adhesion

Good application verticality

Good overspray absorption

Excellent flow

Excellent covering power

Excellent sanding power

Recommended surface and temperature conditions

Avoid applications at room temperature under +5°C or over +35°C and relative room humidity over 80%. Verify surface suitability according to humidity degree with hygrometer . Support temp: min: +5°C - max +35°C.

WARNING: the complete film polymerisation comes after 7-10 days at T=20°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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Reccomendations

Well mix before use

We recommend to apply the product on the whole painting surface , without leaving any uncovered parts which could start a deterioration of the applied cycle film and of the support

At application tempertaures lower than 15°C it could be necessary to add more thinner to obtain the desired application viscosity. Too much thinner leads to a reduction of the sagging resistance anc can lead to defects while application.

High humidities can cause opacifications while application.

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

Application cycle

Support	Iron	Aluminium	Galvanised	
Recommended	YES	YES	YES	
Recommended hardener	2750/C	2750/C	2750/C	
recommended support preparation	Sandblasting Sa2,5	Sanding	Decaphos	
Recommended Finishes	Water and solvent finishes			

Notice In case of painted supports is better sanding the surface. Check whether bears repainting with epoxy products.

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Use



Airspray



Airless



Brush



Roll

Thinner

CS/2780

Tools' cleaning

CS/2 or CS/2780

Instructions for use

Well mix base and hardener according to following ratio

Hardener	% Volume ratio	% Weight ratio	Volume parts ratio:	Notice
2750/C	27	15	3,7 : 1	
2780/C	27	15	3,7 : 1	
2760/C	26	15	3,8 : 1	

Notice

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Application process

Airless spray

Thinner (% Weight)	CS/2780	0 - 5
Nozzle diameter (mm/inch)	0,28 - 0,33	
Nozzle pressure (Atm/Mpa)	140 - 160	

Conventional spray

Thinner (% Weight)	CS/2780	15
Nozzle diameter (mm/inch)	1,5	
Nozzle pressure (Atm/Mpa)	2 - 3	
Application viscosity ASTM 4 (s)	35	

High pressure air mix spray

Thinner (% Weight)	CS/2780	5 - 10
Nozzle diameter (mm/inch)	0,28 - 0,33	
Nozzle pressure (Atm/Mpa)	140 - 160	

HVLP gravity pneumatic spray

Thinner (% Weight)	CS/2780	15
Nozzle diameter (mm/inch)	1,5 - 1,7	
Nozzle pressure (Atm/Mpa)	1,5	

HVLP suction pneumatic spray

Thinner (% Weight)		
Nozzle diameter (mm/inch)		
Nozzle pressure (Atm/Mpa)		

Brush/Roll

Thinner (% Weight)	CS/2780	0 - 5
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Notice As a thinner is also possible to use CS / 154. In this case, keep in mind that the rate of evaporation is greater; therefore be adapted to the conditions of application in order to obtain the distension and the desired spray absorption. For applications with airless, during the summer season, it might be convenient to use CS / 3500 Corrective AA.

Cleaning solvent

CS/2 or CS/2780

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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
	Mass density (kg/l)	1.35
	Solids content by weight (%)	61
	Solids content by vol. (%)	40
	ASTM 4 cup viscosity (s)	35 - 40
	Brilliance (%)	< 10
	recommended dry film thickness (dtf) (µm)	50 - 80
	Theoretical spreading rate (mq ² /kg)	3,7 - 6 (80 µ - 50 µ DFT)
	Complete polymerisation - days	7
	Flashpoint (°C)	23 °C
	Temperature resistance (°C)	120

Notice Data refer to the product ready for use (see application instructions).

Tin aspect	Liquid
Color	Light grey

Notice GREYSCALE
4970 Prime Coat FZ is provided in a very clear coloring; it is possible to paint with the concentrate 4052 Black from the Sestriere MCS system, in order to obtain shades of grey , useful in the optical contrast to better identify the applied layers.
Frequent Colorations: with + 1 % of 4052 Black we obtain approximately RAL 7040; with + 2 % of 4052 Black we obtain approximately RAL 7045; with + 3 % of 4052 Black we obtain approximately RAL 7046.
BEIGE SCALE
It is also possible to paint with the concentrate 4010 Yellow oxide from the Sestriere MCS system, in order to obtain shades of beige.
Frequent Colorations: with + 0,5 % of 4010 Yellow oxide we obtain approximately RAL 1013; with + 1,0 % of 4010 Yellow oxide we obtain approximately RAL 1015; with + 1,5 % of 4010 Yellow oxide we obtain an intermediate shade between RAL 1015 and RAL 1014.

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Air drying	Dust free (minutes)	30
	Touch dry (h)	2,5
	Dry through (days)	1
	Possible to tape (h)	-

Notice -

Oven drying	Before air drying time (minutes):	15 - 20
	Exposure time (°C):	50 - 60
	Exposure time (minutes):	30

Overcoat for air drying	Recommended overcoat after min. (h):	0,5
	Recommended overcoat after max. (days):	15

Notice Sanding is required after 15 days.

Overcoat for oven drying	It's recommended sanding the product dried into the oven.
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Conditions of samples	Tests on completely cured films , dried for at least 7 days at +20°C
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Salt spray (ISO 9227 ; ASTM B117-64)	Exposure time:	500
	(ISO 4628-3) Ruggine Ri=	0
	(ISO4628-2) Blistering Density=	0

Notice -

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Liquid resistance (N.B. resistance for discontinuous contact, not for immersion)

Water resistance	Excellent
Mineral Oil resistance	Excellent
Alkali resistance	Date not available
Acid resistance	Date not available
Alcool resistance	Excellent
Used solvent	MEK
Solvents Resistance (50 double strokes of cotton wool soaked in solvent)	Good
Ink resistance	Date not available
Unleaded petrol resistance (also consider that, if exposed to air, petrol evaporates in 2' at T=20C)	Excellent
Resistance to transport diesel	Excellent

Mechanical tests

Abrasion - Taber Test (ISO 7784-2) mg/1000 cycles:	-
Konig pendulum Hardness (ISO 1522) seconds:	-
Cupping Test (ISO 1520) mm:	-
Impact Test (ISO 6272) 1 kg ; cm:	-
Adhesion (ISO 2409) - class:	0

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STORAGE (dry and cool place)

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

Storage temperature (°C)

+5 ÷ +35

Unit size

5 - 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 areated 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.