

4951 EPOX PRIMER HS FZ

Two components high solid epoxy primer with zinc phosphate



technical data sheet

Revision 1 fro 31/10/2017

Converter name -

Destination Suitable for steel structures in general (truss, external pipes, external ducts) exposed in industrial environments. Suitable for well prepared light alloys - galvanised steel . Usable on raw concrete. Low absorption of overcoated enamels.

Characteristics

- Good resistance in particularly aggressiv environments
- High adherence on alloys
- Good overspray absorption
- Good maintenance over time
- Good hardening time, even at room temperature
- Easy to apply

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.

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

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

Application cycle

Support	Iron	Aluminium	Galvanised	Concrete
Recommended	YES	YES	YES	YES
Recommended hardener	2780/C	2780/C	2780/C	2780/C
recommended support preparation	Sandblasting Sa2,5	Sanding	Decaphos	Brushing
Recommended Finishes	Solvent finishes			

Notice In case of painted supports is better sanding the surface.

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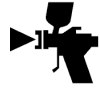
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Use



Airspray



Airless

Thinner

CS/2780

Tools' cleaning

CS/2

Instructions for use

Well mix base and hardener according to following ratio

Hardener	% Volume ratio	% Weight ratio	Volume parts ratio:	Notice
2780/C		20	3 : 1	
2750/C		25	3 : 1	

Notice 2750/C is intended for wet on wet cycle.



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Application process

Airless spray

Thinner (% Weight)	CS/2780	0 - 5
Noozle diameter	0,43 - 0,63	
Noozle pressure (Atm/Mpa)	130 - 150	

Conventional spray

Thinner (% Weight)	CS/2780	15 - 20
Noozle diameter	1,2 - 1,6	
Noozle pressure (Atm/Mpa)	3 - 4	
Application viscosity ASTM 4 (s)	30 - 50	

High pressure air mix spray

Thinner (% Weight)	
Noozle diameter	
Noozle pressure (Atm/Mpa)	

HVLP gravity pneumatic spray

Thinner (% Weight)	
Noozle diameter	
Noozle pressure (Atm/Mpa)	

HVLP suction pneumatic spray

Thinner (% Weight)	
Noozle diameter	
Noozle pressure (Atm/Mpa)	

Brush/Roll

Thinner (% Weight)	
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Notice

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 - 8
Mass density (kg/l)	1,38 - 1,39
Solids content by weight (%)	68 - 70
Solids content by vol. (%)	49 - 51
ASTM 4 cup viscosity (s)	-
Brilliance (%)	15 - 20
recommended dry film thickness (dtf) (μm)	70 - 80
Theoretical spreading rate (mq ² /kg)	5,0 - 5,3 x 70 μ DFT
Complete polymerisation - days	7 - 10
Flashpoint (°C)	>21
Temperature resistance (°C)	100 - 120

Notice Data refer to the product mixed with 2780/C to 20 °C.

Tin aspect

Liquid

Color

Light grey

Notice

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Air drying	Dust free (minutes)	45
	Touch dry (h)	1,5
	Dry through (days)	16
	Possible to tape (h)	-

Notice -

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

Overcoat for air drying	Recommended overcoat after min. (h):	4
	Recommended overcoat after max. (days):	10

Notice With 2750 / C: min. 45 minutes on iron and 4 hours on aluminum and galvanized steel sheet; after 10 days required sanding. With 2780 / C: min. 6 hours; after 15 days required sanding.

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 7-10 days at +20°C
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Salt spray (ISO 9227 ; ASTM B117-64)	Exposure time:	600 ; 1000
	(ISO 4628-3) Ruggine Ri=	0
	(ISO4628-2) Blistering Density=	0
Notice	4951 ; 4951-5008	

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

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

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:	-

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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

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.