TECHNICAL INFORMATION

ZINC TECH ORGANIC PRIMER H.S.

521-86057-720

DESCRIPTION

ZINC TECH ORGANIC PRIMER HS is a two-part, organic zinc, epoxy primer with galvanizing, and excellent antirust properties, high chemical resistance, fast drying, contains more than 85% zinc dust in dry film and, therefore, is especially recommended for harsh environments. Meets SSPC-Paint 20 Level I standard.

USE

It can be used as a high-performance antirust base on carbon steel surfaces, such as structures, tank walls and machinery. Recommended for harsh industrial environments and for surfaces that will remain under constant immersion. It can be coated with a wide variety of finishes.

Structure	Structural metallic elements (columns, trusses, etc.), ships, tank outer walls, pipe internals, buried surfaces, sewage tanks, aerial or buried piping.
Interior/Exterior	Outdoors, Indoors
Surface	Carbon Steel
Line	Industrial / Professional Line

APROPERTIES

SPECIAL PROPERTIES

Finish	**Matt**
High adherence	
Primer	
High Performance	
Excellent Galvanic Protection	
Excellent performance in zones C5-I and C5-M according to ISO 12944.	

PHYSICAL PROPERTY	DATA
Volume Solids (%)	71 - 75
Weight Solids (%)	93

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Brookfield Viscosity (cPs)		73000 Component A
Gloss 60° (ASTM D 523)		< 35 u.b.
Pot life: (at 20°C).		4 h
SSPC-Paint Specification N° 20		Meets Type II,Level I
Tape adhesion (ASTM D 3359)		5A - 5B
Theoretical Coverage (m^2/gallon)		121.5 m^2 @ 1 mil
Product shelf life		Component A and B: 24 months
Flexibility (ASTM D 522) 180° Bend, 1" Mandrel		Pass
Salt Spray - ASTM B 117		2000 hrs (No failure)
Military Specification (MIL) DOD-P-21035B		Meets
Max temperature performance (°C)		150°C
Weight per gallon (kg/gal)		13.93 Component A
Impact resistance (ASTM D 2794)		>55.3 kg/cm (48 lb/in)
Drying time (ASTM D-1640)	In depth	< 8h
Compatibility to the upper layer		PASS
Curing time (ASTM D 1640)		7 days
Zinc content % (ASTM D6580)		> 85%
Recommended dry thickness		1.5 - 3 mil
Corrosive resistance (ASTM D714)		>2000 h
Cathodic protection		PASS
Crack resistance		PASS
VOC (grams/liter)		236
Direct Impact Resistance (ASTM D-2794-92)		25 lb/in

Definition of theoretical yield: Maximum surface that a paint can cover under ideal conditions. Practical performance varies depending on type of surface, used tool, applicator experience and other factors. 1 mil = 0.0254 mm.

PRESENTATION

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AVAILABLE PRESENTATIONS	AVAILABLE COLORS
Component A, 521-86057-720: 1 gallon metallic container (3.785 Liter)	Grey 720
Component B, 521-86057-999: ¼ gallon metallic container (0.946 Liter)	

SURFACE PREPARATION

CONDITION	INSTRUCTION
Recommended Cleaning:	Abrasive blast cleaning to SSPC-SP5 or SP10 standard.
Minimum cleaning	Using steel brush or rotary sander, clean the surface to SSPC-SP2 or SP3 standard, as indicated by the Steel Structures Painting Council
Metal cleaning	On new steel or iron surfaces previously clean with Desengrasante SUR 330-900 Degreaser.
Surface Cleaning	Before applying, remove any dirt, such as dust, grease, or other contaminants, as they can affect the adhesion or performance of the finish.

PRODUCT PREPARATION

COMPONENT	MIXING RATIOS	MIXING INSTRUCTIONS
Component A: 521-86057-720, ZINC TECH ORGANIC PRIMER H.S.	**4 parts**	Stir well before use:
Component B: 521-86057-999, ZINC TECH ORGANIC PRIMER HS, PART B	**1 part**	Mix both components as indicated, wait for the induction time, and apply.
Diluent: 510-80003-900, BECCPOXY DILUYENTE EPÓXICO (Epoxy Diluent)	**25% maximum**	

Induction Time: 20 minutes

PRODUCT APPLICATION

It can be applied with

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Brush	Airless	Air Spray (suction or gravity feed) Roller

Airless Aplication	
Nozzle Size	0.43 mm (0.017") - 0.50 mm (0.020")
Fan Angle	60° - 80°
Dry film thickness per coat	2.5 mils
Wet film thickness per coat	3.3 mils
Line Pressure	2400 PSI

These are reference values. Some value may be slightly adjusted by the professional applicator as field conditions dictate.

Application Conditions	
Room Temperature	10°C - 40°C
Surface Temperature	5°C - 40°C
Relative humidity	10% - 85% (*) This product can be applied where is up to 95% H.R., if there is a follow-up and approval by the Technical Service of SUR Química S.A.

Surface temperature should be at least 3°C above dew point.

Drying times	
Touch-dry time	1.5 hours
Dry to recoat time	6 - 24 hours
Total curing time	7 days

These drying times are under optimal conditions (between 22 - 28°C temperature and 60 - 80% relative humidity). These times depend on the temperature, humidity, thickness of the paint film and dilution.

OBSERVATIONS

✓ If you need more information, check our website https://www.gruposur.com/asistencia/

✓ Keep container tightly closed in a ventilated place, between 20 and 30 °C, out of reach of children.

HEALTH

✓ This a professional/industrial product and it should be applied by properly trained personnel, wearing appropriate Personal Protection Equipment (PPE), as described in its Safety data Sheet (MSDS), available at http://www.gruposur.com

If you need to dispose of empty containers of our products in Costa Rica, contact your SUR Color paint store or our industrial compound in La Uruca, San Jose.