

TECHNICAL INFORMATION

ZINC TECH AQUA SILICATE PRIMER

Water-Base Zinc Inorganic Primer

521-85053-720



DESCRIPTION

ZINC TECH INORGANIC PRIMER H.S. is a water-base, inorganic zinc primer with galvanizing properties and high chemical resistance that provides the highest anti-rust protection in aggressive marine and industrial environments. Fast drying.

USE

Use it as a high-performance anticorrosive base on carbon steel surfaces and structures, like ships, tanks, machinery walls and others. Recommended for severe industrial conditions and for immersed surfaces. It can be coated with a wide range of finishes.

Structure Ships, Buried and aerial pipes or other structures, outer tank walls, Inner Piping, Low temperature surfaces, Structural elements (column, trusses, etc.), Wastewater tanks.

Exterior/Interior Indoors, Outdoors

Surface Steel

Product line Professional/industrial Line

CHARACTERISTICS

SPECIAL PROPERTIES

Finish Matte

Excellent Adherence

Primer

High Yield

Excellent galvanic protection

Excellent performance on C5-I and C5-M, by ISO Standard 12944

PHYSICAL PROPERTY

DATA

Volume Solids (%) 74/76 Wet/dry Method

Pot life @ 20°C. 3 hours

Weight solids (%) 67 - 69

These technical data were calculated under controlled laboratory conditions, but SUR QUIMICA has no control over conditions, tools, applicator skills, selection, preparation or compatibility of products used; therefore, can only guarantee this product quality, its features and qualities' suitability, but is not responsible for the results obtained in conditions impossible to check once the job has been done. SUR QUIMICA has made reasonable efforts to ensure the accuracy of the information provided here, but assumes no responsibility for any error, omission or inaccuracy in it. If there is any inconsistency between different language issues of this document, Spanish version will prevail.



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Weight per Gallon (kg/gal)	5.1 Component B
Dry heat resistance (ASTM D) 2485	450°C
ASTM D3359 (Adhesion by tape)	4B - 5B
High Temperature Service	450°C
Theoretical Yield (m ² /Gallon)	112,5 m ² @ 1 mil
Maximum Service Temperature (°C)	450
Shelf Life	PART A: 12 months Part B: 6 months
Recommended Dry Film Thickness	1 - 2.5 mils
VOC (grams/liter)	0

Definition of theoretical yield: Maximum surface that can be covered with a painting under ideal conditions. The practical performance varies depending on the type of surface used tool, applicator experience and other factors. 1 mil = 0.0254 mm.

PRESENTATION

AVAILABLE PRESENTATIONS

Part A, 521-85051-720= 6.52 kg (powder component) in metallic can

Part B, 521-85051-999= 3.04 kg (liquid component) in plastic can

AVAILABLE COLORS

Gray

SURFACE PREPARATION

CONDITION	INSTRUCTION
Surface Preparation	Surface should be free of rust, grease, dust or any other contaminant that can affect the coating adherence or performance.
Abrasive blast Cleaning	Clean with abrasive blast to get a SSPC SP5 o SP10 cleaning standard.
New steel Surfaces	New steel surfaces should be previously cleaned with SUR Deoxidant-Degreaser, 305-900.
Surface Preparation	Surface should have an adequate anchor pattern (15 to 25% of total thickness of the paint system)

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PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
PART A: 521-85053-720, ZINC TECH AQUA SILICATE PRIMER	0.8 Parts	Add slowly Part A (powdered) to Part B (liquid) while stirring, to ensure a good mixing of the zinc powder.
PART B: 521-85053-999, ZINC TECH AQUA SILICATE PRIMER, Comp B	1 Part	
Diluent: Clean Water	20% - 25%	Finally add diluent and mix.

INDUCTION TIME: 20 minutes

PRODUCT APPLICATION

IT CAN BE APPLIED WITH



Airless spray



Spray gun (gravity or suction feed)

Airless spray application

Nozzle size	0.43 to 0.50 mm
Fan Angle	60° - 80°
Dry Coat Thickness	2.5 mils
Wet Film Thickness	3.34 mils
Line Pressure	180 BAR

These are reference values. Professional users can slightly adjust some value as indicated by field conditions.

Drying times are based in normal application, temperature, film thickness and dilution conditions.

Application conditions

Relative Humidity	10% - 85%
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Room Temperature	10°C – 40°C
Surface Temperature	5°C – 35°C

Surface temperature should be at least 3°C (5°F) over dew point.

Drying times

Dry-to-Touch Time	30 min
Recoat time	2 hours – Unlimited (do not recoat with the same product)
Total drying time	1 day (At 20°C and 70% RH)

Drying times listed are under ideal conditions (Between 22–28°C temperature and 50 – 80% ambient humidity). These times are dependent on temperature, moisture, film thickness and dilution.

Application Instructions

After this primer has been applied, it's very important to apply a mist coat (diluted with 150% of the proper diluent) of the intermediate layer or finish coat, as appropriate.

This will avoid bubbles and prevent an inadequate adhesion.

Next coats of the paint system should be applied within the indicated times.

Stir frequently during application

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NOTICE

- ✓ 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.
- ✓ Container must be kept tightly closed to avoid loss of its properties.

HEALTH

- ✓
- ✓ 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.
- ✓ This product is for professional/industrial use only and must be applied by trained personnel, using the appropriate Personal Protection Equipment (PPE), as described in its Safety data Sheet (MSDS), available at <http://www.gruposur.com>

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