PRIMER PAINTS- ZINK ETHYL SILICATE PRIMER (P3930)

Product description: P3930 is a two-component primer based on ethyl silicate resin and is resistant to spills and vapors of salt solutions, moderate alkaline and acidic solutions and corrosive environments with a final coating. It should be noted that this coating is resistant to heat up to 400°C continuously, and up to 420°C intermittently.

Application: This coating creates a high capability cathodic protective film to protect steel structures, machinery, exterior surfaces of tanks and pipes, oil refineries, various parts of ships such as decks, hulls and drinking platforms.

Technical data:

Specification	Details	EN Standard	ASTM Standard
Color / Shade	Gray	Visual / EN ISO 3668	D1535
Solids by Volume %	50 ± 3	EN ISO 3251	D2697
Solids by Weight %	81 ± 2	EN ISO 3251	D2369
Density / Specific Gravity	2.4 - 2.6 kg/lit	EN ISO 2811	D1475
Mixing Ratio (by Weight)	Depending on different shade	Internal Method	Internal Method
Shelf life	12 months		
Dry Film Thickness (DFT) µm	50 - 60 µ	EN ISO 2808	D7091
Wet Film Thickness (WFT) µm	95 - 120 µ	EN ISO 2808	D4414
Spreading Rate (Theoretical Coverage) m2/L	8 - 10 m2/lit	EN ISO 6504	D2697
Hardening mechanism	two-component chemical reactions	Technical Description	Technical Description
Best Condition:	Maximum Humidity		

Pot life (Clock)	Re-coating time (hours)	Full Cure	Surface drying time (Clock)	Moisture	Temp C° °F
3	Depends on atmospheric conditions	5-7	50Min	60%	59 (15)
		5	40to45 min	More than 60%.	
2	24	3-5	20to25 min	60%	77 (25)
	16	3	10to15 min	More than 60%.	
1	16	3	10to20 min	60%	104 (40)
	12	1	5to10 min	More than 60%.	

Equipment Used:

Airless Spray : Nozzle Diameter: 0.015 - 0.021 Inch
Exhaust Pressure: Minimum 112 Times
Air Spray
Nozzle Diameter: 1.8 -2 Mm - Nozzle Pressure: 2-4 Times Brushes: 30-40 (For Spotting) - Roller : 30-40 (For Spotting)

Environmental Conditions:

The surface temperature should be at least 3 degrees above the dew point. In hot climates, the temperature of the material must be 20-25 degrees before mixing, otherwise the pot life will be too short. To ensure hardening of the coating, the air temperature and surface should be above 10°C. This coating should not be applied in areas that have been overturned or wind speeds exceeding 7 m/s.

Surface Preparation:

- The surface should be clean, dry and free from any contamination and by splashing water or water jet, all grease, oil, insoluble contaminants and other materials should be cleaned from the surface and be cleaned according to SSPC-1 standard.
- The surface sand blast should be carried out in accordance with the standard ISO 8501-1 (1988) Sa21/2 orSSPC-SP-10.
- If the time between blast and the implementation of this coating is prolonged and the surface rust occurs, the surface should be re-blasted.
- Profile (µ 50-40) is recommended for this system.

Method of Applying:

- All equipment should be cleaned with the recommended thinner before use because the moisture hardens the desired product in the equipment.
- Component B is added to component A and mixed well so that the mixture is free of any bubbles.
- Mixing continues while applying the cover. (This product has a lot of flavors.) **Note:** Since the pot life time is limited and the temperature increases, avoid mixing more than the required amount.
- For air spray from 2 to 5% thinner and for spray without air thinner is not recommended.
- Each staining pulse should be applied in parallel, so that each pulse covers 50% of the painted surface at the right angle.
- Wash all equipment immediately after use

Safety Tips: This coating is flammable and must be away from flame and heat, and the operator is obliged to study and comply with the MSDS conditions of this product, use a special mask and safety gloves during use, and carry out operations in environments that have proper ventilation.

Storage Conditions: This product should be stored in a closed space away from direct rays at a temperature of 5-35 degrees.

Considerations: The drying time depends on the film thickness applied, all the data in this catalog are based on the thickness of the dry film in vitro conditions.

LEGAL NOTES : : The information contained in this Technical Data Sheet is based on laboratory testing and practical experience. Actual performance may vary depending on substrate condition, application method, and environmental conditions. Users should test suitability before large-scale application.

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