



Advance Coat IOZ SP

High Performance Inorganic Zinc Shop Primer

Generic Type :

Two pack inorganic zinc rich primer base on ethyl silicate reinforce by grade 1 zinc dust anti-corrosive pigment.

ensure proper cure and film properties. Constant stirring is require during spraying to prevent settling of zinc dust.

Description :

Advance Coat IOZ SP is a Inorganic Zinc shop primer system use as shop primer for blast-cleaned steel plate. It have excellent cutting and welding properties. It give prolonged weather resistance and corrosion protection by galvanic protection. It can withstand up to 800 °C and it is compatible to most of the subsequent primer system with minimum secondary surface preparation.

Curing schedule :

Complete curing – 7 days. Higher film thickness, insufficient ventilation, or lower temperature will require longer cure time. Excessive thickness will cause cracking problem. If the paint is not fully cured, water exposure may cause whitening.

Typical Uses :

Can be used as shop primer for blast-clean steel plate where long term protection against corrosion, good cutting and welding properties are require.

- Chemical Plant and factories
- Bridges
- Vessel
- Off shore structures

This product requires the substrate temperature to be above the dew point (+ 3~5 °C). Condensation due to substrate temperatures below dew point can cause flash rust on metal and adhesion will be affected.

Application procedure :

Mix properly the two component before use.

- a) Flush equipment with thinner or AC Thinner B before use.
- b) Mix the base and powder according to the stated ratio until homogeneous. Observe the pot life, at higher temperature, the pot life will be shorten.
- c) Thin only if necessary for workability.
- d) Filter by 100 mesh and install filter mesh to suction pump to prevent choking of spray nozzle.
- e) When applying by conventional spray, use adequate air pressure and volume for proper atomisation.
- f) Apply a wet coat in even parallel passes, overlap 50% to avoid holidays and pin hole.
- g) Precaution have to be taken to prevent spray dust, in case of high temperature, slow thinner may be required.
- h) Clean up all equipment with thinner or AC thinner B immediately after use and flush the line when there is a break.
- i) Keep containers tightly close and store in proper storage area.

Physical Data :

Color : Grey, Green, brown
 Flash Points : Base 15 °C ;Paste 23 °C
 Volume solid : 36 +/- 2%
 Shelf Life @ 20°C/indoor : 6 months

Application Details

Mixing Ratio: Base : Paste =40:60 (by wt)
 Base : Paste =60:40 (by Vol)

Drying Time(at Dry Film Thickness 20µ)	Temperature	10°C	20°C	30°C
	Surface Dry	4 min	3 min	2 min
Painting interval:	Hard Dry	2 hrs	1.5 hrs	1 hrs
	Minimum	8 hrs	5 hrs	4 hrs
	Maximum	-	-	-
Pot life / working life		30 hrs	24 hrs	15 hrs
Theoretical coverage (at DFT 75µ)		0.04 L/m ² ; 60 g/m ²		
Service temperature		-20 to 800°C (dry)		

- For overcoating interval of touch up of inorganic coating.
- For organic coating, minimum coating interval is minimum 7 days.

Application Data :

Application Method : airless spray,, brush

Mixing Procedure : Power mix the base separately and then combine and power mix for at least two minutes or until homogeneous. When mixing partially, it is critical to follow to the mixing ratio as stated to

Condition of Application :

Use brush for touch-up only . Apply at specified thickness, ideally 75 – 100 microns .

Temperature : Minimum 5 – 50 °C
 Humidity : Maximum 50 - 95 % R.H.
 For Airless spray :-
 Tip Size : Graco 617 ~ 823
 Paint Output pressure : 50 – 100 kgf / cm²
 Viscosity : 10 – 12 second (ford cup no 4)
 Thinning : 5 – 20 % by volume



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Surface Preparation

General : Surfaces must be clean and dry, all contaminants like dirt, dust , oil must be remove by appropriate method to ensure good adhesion

Steel : Grit blasting to ISO Sa2.5 or SSPC SP10 and above
Surface profile : 45 – 75 microns

* for secondary surface preparation, all surface contaminant have to remove by sweeping or sanding before application of primer system.

Performance Data :

Properties	Test Method	Evaluation
Adhesion	ASTM D4541	400 psi
Impact Resistance	ASTM D2794	60 IP/ $\phi < 3$ mm

Safety Precaution and Clean-up

Safety : Read and follow the material safety data sheet (MSDS) before use. Employ normal safety precaution. Put on necessary personal protection equipment when handle and use this product.

Ventilation : when working in a confine workplace, thorough air ventilation must be used during and after application until the coating is cured. The ventilation system should be effective to prevent solvent vapour concentration from reaching lower explosion limit for the product and to ensure exposure limit to the personnel to be below permissible exposure limit.

Caution : All electrical equipment and installations should be made and properly grounded. In area where explosion hazard exist, workmen should be used non-ferrous tools, conductive and non-sparkling shoes.

Clean-up : Use AC thinner B or alcohol for cleaning. Observe safety precaution when use the solvents. In case of spillage, absorb and dispose the material and used container according to local required regulation or through licence waste collector.

Disclaimer

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Limited Warranty

Whilst we endeavour to ensure that all advice we give about this product is correct and manufacture according to standard quality control system, however we have no control over either the quality or condition of the substrate or many other factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of this product.