Interplate Zero

IMO Resolution MSC.215 (82) compliant Zinc Silicate Shop Primer

PRODUCT DESCRIPTION

A two pack, heat resistant, water based shop (pre-construction) primer providing good corrosion protection and resistance to damage caused by welding, gas cutting and fairing. Suitable for fast welding processes and offers control of secondary surface preparation requirements.

INTENDED USES

As a shop (pre-construction) primer for the protection of steel during fabrication and assembly.
Suitable for use with controlled cathodic protection.
For use at Newbuilding.

PRODUCT INFORMATION

Colour	ZER010/ZER011-Grey, other colours available upon request
System Film Thickness	1 coat at 15 microns dry (42 microns wet) per coat
Part B (Curing Agent)	ZER011 (Powder)
Volume Solids	36% ±2% (ISO 3233:1998)
Mix Ratio	5.34 volume(s) Part A to 1 volume(s) Part B
Specific Gravity	Base (Part A) 1.077-1.117 Powder (Part B) 5.05-5.21 (Theoretical) Mixed Paint 1.7-1.76
Theoretical Coverage	24 m²/litre at 15 microns dft, allow appropriate loss factors
Method of Application	Airless Spray, Brush, Conventional Spray, Roller
Flash Point (Typical)	Not applicable

Drying Information	5°C	10°C	25°C	35°C
Hard Dry [ISO 9117-1:2009]			4 mins	2 mins
Pot Life			24 hrs	24 hrs

Note (a) It is recommended to pre-heat the steel to 30-35°C prior to applying Interplate Zero. After application, it is also recommended to post-cure Interplate Zero to 30-35°C for 15 seconds minimum.
(b) At higher than specified film thickness or under application conditions of high humidity, a minimum steel temperature of 40°C is recommended.

Overcoating Data - see limitations

	Substrate Temperature							
	5°C		10°C		25°C		35°C	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max

Note Consult International Paint, minimum of 7 days for appropriate primers.

REGULATORY DATA

VOC

0 g/lt calculated
0 g/kg of liquid paint as supplied. EU Solvent Emissions Directive (Council Directive 1999/13/EC)

Note: VOC values are typical and are provided for guidance purposes only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

CERTIFICATION

When used as part of an approved scheme, this material has the following certification:

- Weld Quality - Approval of Prefabrication Primers (LR)
- Weld Quality - Shop Primers for Corrosion Protection of Steel Plates and Structures (DNV)
- Fire Resistance - Surface Spread of Flame (Exova Warringtonfire)
- Fire Resistance - Smoke & Toxicity (Exova Warringtonfire)
- Fire Resistance - Marine Equipment Directive compliant

- IMO PSPC Resolution MSC.215 (82) - Lloyds Register (LR)
- IMO PSPC Resolution MSC.215 (82) - Det Norske Veritas (DNV)
- IMO PSPC Resolution MSC.215 (82) - Registro Italiano Navale (RINA)
- IMO PSPC Resolution MSC.215 (82) - American Bureau of Shipping (ABS)
- IMO PSPC Resolution MSC.215 (82) - Bureau Veritas (BV)

Consult your International Paint representative for details.

SURFACE PREPARATIONS

Use in accordance with the standard Worldwide Marine Specifications.
All surfaces to be coated should be clean, dry and free from contamination.
High pressure fresh water wash or fresh water wash, as appropriate, and remove all oil or grease, soluble contaminants and other foreign matter in accordance with SSPC-SP1 solvent cleaning.

NEWBUILDING

Shop primers should be applied using automatic blasting/spraying equipment.
Blast to a minimum of Sa2½ (ISO 8501-1:2007).

Consult your International Paint representative for specific recommended abrasives and surface profiles.

Apply Interplate Zero before oxidation occurs. If oxidation does occur the entire oxidised area should be reblasted to the standard specified above.

Consult your International Paint representative for specific recommendations.

Cleanliness

All surfaces to be coated must be clean, dry and free from contamination.

Residual dust levels prior to paint application must not exceed rating "1" for dust size classes "3", "4" or "5" (ISO 8502-3:1993).

Residual soluble salt levels prior to coating application must not exceed 50mg/m² as extracted and measured in accordance with ISO 8502-6 (1995) and ISO 8502-9 (1998) respectively.

Surface profile

The surface profile must lie in the range 30-75 microns (ISO 8503-1/2:1988).

NOTE
For use in Marine situations in North America, the following surface preparation standards can be used: SSPC-SP10 in place of Sa2½ (ISO 8501-1:2007)

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APPLICATION

Mixing	Material is supplied in 2 separate containers as a unit. Always mix a complete unit in the proportions supplied. Agitate the binder (Part A) with a power agitator then slowly add the powder (Part B) whilst continuing agitating. Where product is supplied as a 4 US gallon unit Part B may be added directly to Part A. Where it is supplied as a 17.8 litre unit it will be necessary to transfer Part A to a separate suitable container prior to adding Part B. Allow to mix for at least 5 minutes, sieve through a 30-60 mesh screen before use. Continue stirring during use. Always add Powder to Binder.
Thinner	Not recommended. Consult your International Paint representative.
Airless Spray	Recommended Tip Range 0.38-0.58 mm (15-23 thou) Total output fluid pressure at spray tip not less than 60 - 100 kg/cm² (850 - 1420 p.s.i.)
Conventional Spray	Recommended.
Brush	Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
Roller	Application by roller is recommended for small areas only. Multiple coats may be required to achieve specified film thickness. Brush and roller are not suitable for application of full coats. Airless spray should be used for the latter.
Cleaner	Potable Water.
Work Stoppages and Cleanup	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with potable water. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units, to ensure that the potlife has not been exceeded. Clean all equipment immediately after use with water. Spray equipment requires flushing with water. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency will depend upon factors such as amount sprayed, temperature and elapsed time including work stoppages. Monitor material condition. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.
Welding	**Hot Work** In the event welding or flame cutting or fairing is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation. In North America do so in accordance with instruction in ANSI/ASC Z49.1 "Safety in Welding and Cutting."

SAFETY

All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety & Environmental standards and regulations.

Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information. Read and follow all precautionary notices on the Material Safety Data Sheet and container labels. If you do not fully understand these warnings and instructions or if you can not strictly comply with them, do not use this product. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapour concentrations within safe limits and to protect against toxic or oxygen deficient hazards. Take precautions to avoid skin and eye contact (ie. gloves, goggles, face masks, barrier creams etc.) Actual safety measures are dependant on application methods and work environment.
EMERGENCY CONTACT NUMBERS:
USA/Canada - Medical Advisory Number 1-800-854-6813
Europe - Contact (44) 191 4696111. For advice to Doctors & Hospitals only contact (44) 207 6359191
R.O.W. - Contact Regional Office

LIMITATIONS

Drying times will depend on the substrate temperature and ventilation conditions.
If the relative humidity is below 50%, cure will be retarded.
Interplate Zero is not recommended for manual spray application.
Shop primers are not recommended for use as touch-up primers after fabrication.

Film Thickness

Minimum film thickness

Film thicknesses below the specified 15 microns may result in premature breakdown of the shop primer and substrate corrosion, necessitating additional secondary surface preparation.

Maximum film thickness

Film thicknesses above the specified 15 microns may adversely affect welding and cutting properties and may affect the performance of subsequently applied coating systems. Thicknesses above 25 microns should be avoided.

Overcoating information is given for guidance only and is subject to regional variation depending upon local climate and environmental conditions. Consult your local International Paint representative for specific recommendations. The temperature of the surface to be coated must be at least 3°C above the dew point. For optimum application properties bring the material to 21-27°C , unless specifically instructed otherwise, prior to mixing and application. Unmixed material (in closed containers) should be maintained in protected storage in accordance with the information given in the STORAGE section of this data sheet. Technical and application data herein is for the purpose of establishing a general guideline of the coating and proper coating application guidelines. Test performance results were obtained in a controlled laboratory environment and International Paint makes no claim that the exhibited published test results, or any other tests, accurately represent results actually found in all field environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection, verification of performance and use of the coating.

UNIT SIZE

Unit Size	Part A		Part B	
	Vol	Pack	Vol	Pack
17.8 lt	15 lt	15 lt	2.8 lt	20 lt
4 US gal	3.37 US gal	5 US gal	0.63 US gal	3 US gal

Part A is supplied in a polyethylene container
Part B is supplied in a steel container
For availability of other unit sizes consult International Paint

UNIT SHIPPING WEIGHT (TYPICAL)

Unit Size	Unit Weight
17.8 lt	32.91 Kg
4 US gal	68 lb

STORAGE

Shelf Life

Cool dry conditions Part A must be kept above 5°C
Part A - 9 months at 25°C
Part B - 18 months at 25°C
Subject to reinspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

PLACE OF MANUFACTURE

United Kingdom, USA. **Selection from this list as appropriate.**

IMPORTANT NOTE

www.international-marine.com