

Inorganic Zinc Rich Silicate

INTENDED USES

As a metallic zinc pigmented primer to provide excellent protection to steel substrates; for use with a wide range of high performance systems in offshore and onshore environments including oil production platforms, refineries, bridges, tanks, pipework and structural steelwork.

Ideal for giving long term protection to structural steel prior to field topcoating.

Can be used for new construction and as fast drying primer, capable of application in a wide range of climatic conditions including low temperatures.

PRACTICAL INFORMATION FOR INTERZINC 12	Colour	Greenish Grey, Grey			
	Gloss Level	Matt			
	Volume Solids	62%			
	Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 81-121 microns (3.2-4.8 mils) wet			
	Theoretical Coverage	8.30 m²/litre at 75 microns d.f.t and stated volume solids 331 sq.ft/US gallon at 3 mils d.f.t and stated volume solids			
	Practical Coverage	Allow appropriate loss factors			
	Method of Application	Airless Spray, Air Spray			
	Drying Time				
		Overcoating Interval with			

			recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
5°C (41°F)	40 minutes	4 hours	36 hours	Extended ¹	
15°C (59°F)	20 minutes	2 hours	24 hours	Extended ¹	
25°C (77°F)	15 minutes	1 hour	16 hours	Extended ¹	
40°C (104°F)	5 minutes	30 minutes	8 hours	Extended ¹	

¹ See International Protective Coatings Definitions and Abbreviations

Overcoating is dependent upon ambient conditions. The figures quoted above have been determined at the quoted dry film thickness, temperature and 65% relative humidity. See Product Characteristics for further advice.

REGULATORY DATA	Flash Point (Typical)	Part A 15°C (59°F); Part B Not applicable; Mixed 16°C (61°F)					
	Product Weight	2.40 kg/l (20.0 lb/gal)					
	VOC	3.76 lb/gal (451 g/lt) 223 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)				

See Product Characteristics section for further details

Protective Coatings

AkzoNobel



Inorganic Zinc Rich Silicate

SURFACE PREPARATION

APPLICAT

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Interzinc 12, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A surface profile of 40-75 microns (1.5-3.0 mils) is recommended.

Shop Primed Steelwork

Interzinc 12 is suitable for application to steelwork freshly coated with zinc silicate shop primers.

If the zinc shop primer shows extensive or widely scattered breakdown, or excessive zinc corrosion products, overall sweep blasting will be necessary. Other types of shop primer are not suitable for overcoating and will require complete removal by abrasive blast cleaning.

Weld seams and damaged areas should be blast cleaned to Sa2¹/₂ (ISO 8501-1:2007) or SSPC-SP6.

Damaged / Repair Areas

All damaged areas should ideally be blast cleaned to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. However, it is acceptable that small areas can be power tool cleaned to Pt3 (JSRA SPSS:1984) or SSPC-SP11, provided the area is not polished. Repair of the damaged area can then be carried out using a recommended zinc epoxy primer - consult International Protective Coatings for specific advice.

ΓΙΟΝ	Mixing	and a Powder added to the NOT ADD LIC and should be	Interzinc 12 is supplied in two parts, a liquid Binder base component (Part A) and a Powder component (Part B). The Powder (Part B) should be slowly added to the liquid Binder (Part A) whilst stirring with a mechanical agitator. DO NOT ADD LIQUID TO POWDER. Material should be filtered prior to application and should be constantly agitated in the pot during spraying. Once the unit has been mixed it should be used within the working pot life specified.						
	Mix Ratio	3.65 part(s) :	3.65 part(s) : 1.00 part(s) by volume						
	Working Pot Life	5°C (41°F)	5°C (41°F) 15°C (59		25°C (77°F)	40°C (104°F)			
		12 hours	8 hours	4	4 hours	2 hours			
	Airless Spray	Recommende	Recommended		Tip Range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 112 kg/cm ² (1593 p.s.i.) A 9 mm (0.375") fluid hose of maximum 15 metres (49 ft) is recommended.				
	Air Spray (Pressure Pot)	Recommended		Gun Air Ca Fluid	ар	DeVilbiss MBC or JGA 704 or 765 E			
	Brush	Suitable - Sm	Suitable - Small areas			Typically 25-50 microns (1.0-2.0 mils) can be achieved			
	Roller	Not recomme	Not recommended						
	Thinner		International GTA803 or International GTA415		Do not thin more than allowed by local environmental legislation				
	Cleaner	International GTA803 or International GTA415							
Work Stoppages Do not allow material to remain in hoses, gun or spray equipn flush all equipment with International GTA803. Once units of p mixed they should not be resealed and it is advised that after stoppages work recommences with freshly mixed units.						Once units of paint have been vised that after prolonged			
	Clean Up	Clean all equipment immediately after use with International GTA803. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.				equipment during the course of pend upon amount sprayed,			
All surplus materials and empty containers should be dispos with appropriate regional regulations/legislation.									



Inorganic Zinc Rich Silicate PRODUCT Prior to overcoating, Interzinc 12 must be clean, dry and free from both soluble salts and excessive **CHARACTERISTICS** zinc corrosion products. Surface temperature must always be a minimum of 3°C (5°F) above dew point. When applying Interzinc 12 in confined spaces ensure adequate ventilation. The minimum overcoating interval is dependent upon the relative humidity during cure. Below 65% relative humidity the minimum recoat period will normally be at least 24 hours, but will be dependent upon the dry film thickness, ambient temperature and relative humidity during the application and curing period. It is recommended that prior to overcoating a solvent rub test to ASTM D4752 should be undertaken. A value of 4 indicates a satisfactory degree of cure for overcoating purposes. At relative humidities below 50%, curing will be severely retarded and humidity may need to be increased by steam or water spraying. Alternatively, the use of Interzinc accelerator solution may be necessary. Please consult International Protective Coatings for further details in this situation. For high temperature systems the thickness of Interzinc 12 should be restricted to 50 microns (2 mils) d.f.t. Continuous dry temperature resistance of Interzinc 12 is 400°C (752°F) if left untopcoated, however, if this product is used as a primer for Intertherm 50, the dry temperature resistance will be 540°C (1004°F). Excessive film thickness and/or over-application of Interzinc 12 can lead to mudcracking, which will require complete removal of the affected areas by abrasive blasting and re-application in accordance with the original specification. Care should be exercised to avoid application of dry film thickness in excess of 125 microns (5 mils). Untopcoated Interzinc 12 is not suitable for exposure in acid or alkaline conditions or continuous water immersion. This product has the following specification approvals: SSPC Paint Specification No. 20 ASTM A490 Class B Slip Coefficient Note: VOC values guoted are based on maximum possible for the product taking into account variations due to colour differences and normal manufacturing tolerances. Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24. SYSTEMS When it is necessary for Interzinc 12 to be overcoated by itself due to low dry film thickness, the COMPATIBILITY coating surface must be fresh and unweathered. A minimum of 50 microns (2 mils) d.f.t. of any subsequent coat of Interzinc 12 is needed to ensure good film formation. Before overcoating with recommeded topcoats ensure the Interzinc 12 is fully cured (see above) and if weathering has occurred all zinc salts should be removed from the surface by fresh water washing, and if necessary, scrubbing with bristle brushes. Suitable topcoats are: Intercryl 530 Intergard 475HS Interseal 670HS Intercure 200 Intercure 420 Intertherm 50 Intergard 251 Intertherm 715 Intergard 269

In some cases it may be necessary to apply a mist coat of suitable viscosity to minimise bubbling. This will depend upon the age of the Interzinc 12, surface roughness and ambient conditions during curing and application. Alternatively, an epoxy sealer coat, such as Intergard 269, can be used to reduce bubbling problems.

For other suitable topcoats/intermediates consult International Protective Coatings.



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ADDITIONAL Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- · Definitions & Abbreviations
- Surface Preparation
- · Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

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.

In the event welding or flame cutting 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.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Part A Vol	Pack	Part B Vol	Pack	
	15 litre	11.77 litre	15 litre	3.23 litre	20 litre	
	4.65 US gal	3.65 US gal	5 US gal	1.01 US gal	15 US gal	
	For availability of oth	ner pack sizes, o	contact Inter	national Protectiv	ve Coatings.	
SHIPPING WEIGHT	Unit Size	Pa	rt A	Part B		
(TYPICAL)	15 litre	13.	5 kg	24.8 kg		
	4.65 US gal	37.	7 lb	62.8 lb		
STORAGE	Shelf Life	Binder: 6 months minimum at 25°C. Powder: 12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.				

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many 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 at all for the performance of the product for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to use Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

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