Inorganic Zinc-Rich Silicate

WORLD	WIDE	PRODUCT	R A N G E

Product Description	A two component solvent based inorganic zinc-rich ethyl silicate primer. Complies with the composition and performance requirements of SSPC Paint 20.					
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	Colour	Greenish Grey				
Information for	Gloss Level	Matt				
Interzinc 12	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	8.27 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					
	Temperature	Touch Dry	Hard Dry	Overcoating recommend <i>Minimum</i>		
	5°C (41°F)	40 minutes	4 hours	24-48 hours	Extended	
	15°C (59°F)	20 minutes	2 hours	16-24 hours	Extended [*]	
	25°C (77°F)	15 minutes	1 hour	16-24 hours	Extended	
	40°C (104°F)	5 minutes	30 minutes	8-12 hours	Extended	
	▲ 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.					
	* See International Pr				S.	
Regulatory Data	Flash Point	Binder (Part A) 15°C (59°F)) Powder (P N/A		fixed C (61°F)	
	Product Weight	2.4 kg/l (19.6 l	b∕gal)			
	voc	458 g/l	UK - PO	G6/23(92), App	endix 3	
	3.76 lb/gal (451 g/l) USA - EPA Method 24					

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Surface Preparation	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 8504:1992.						
	Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.						
	Abrasive Blast C	leaning					
	optimum perfor	Abrasive blast clean to Sa2½ (ISO 8501-1:1988) or SSPC-SP6 (SSPC-SP10 for optimum performance). If oxidation has occurred between blasting and application of Interzinc 12, the surface should be reblasted to the specified visual standard.					
	Surface defects r treated in the ap	Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner.					
	A surface profile	3.0 mils) is recommended.					
	Shop Primed Ste	elwork					
	Interzinc 12 is su shop primers.	itable for application t	o steelwork freshly coated with zinc silicate				
	If the zinc shop primer shows extensive or widely scattered breakdown, or zinc corrosion products, overall sweep blasting will be necessary. Other typ primer are not suitable for overcoating and will require complete removal abrasive blast cleaning.						
	Weld seams and or SSPC-SP6.	damaged areas should	be blast cleaned to Sa2½ (ISO 8501-1:1988)				
	Damaged/Repai	r Areas					
	All damaged areas should ideally be blast cleaned to Sa2½ (ISO 8501:1988) or SSPC SP6. However, it is acceptable that small areas can be power tool cleaned Pt3 (JSRA SPSS:1984) or SSPC SP11, provided the area is not polished. Repair damaged area can then be carried out using a recommended zinc epoxy prim consult International Protective Coatings for specific advice.						
Application	Mixing	Interzinc 12 is supplied in 2 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 sieved 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 parts : 1 part by	volume				
	Working Pot Life	5°C (41°F) 15°C (59°F) 25°C (77°F) 40°C (104°F) 12 hours 8 hours 4 hours 2 hours					
	Airless Spray		 Tip range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 112 kg/cm² (1,600 p.s.i.) A 9 mm (³/⁸) fluid hose of maximum 15 metres (49 ft) is recommended. 				
	Air Spray (Pressure Pot)	Recommended	Gun DeVilbiss MBC or JGA Air Cap 704 or 765 Fluid Tip E				
	Brush	Small areas only	Typically 25-50 microns (1-2 mils) will normally be achieved.				
	Roller	Not recommended					
	Thinner	International GTA803 (or GTA415)	Do not thin more than allowed by local environmental legislation.				
	Cleaner	International GTA803 (or GTA415)					
	Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA803. 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.					
	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, relative humidity and elapsed time, including any delays.					

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

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Product Characteristics	Prior to overcoating, Interzinc 12 must be clean, dry and free from both soluble salts and excessive 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 service, the thickness of Interzinc 12 should be restricted to 50 microns (2 mils) dry film thickness. 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 will 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 the application of dry film thicknesses in excess of 125 microns (5.0 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					
Systems Compatibility	When it is necessary for Interzinc 12 to be overcoated by itself due to low dry film thickness, the coating surface must be fresh and unweathered. A minimum of 50 microns (2 mils) dry film thickness. of any subsequent coat of Interzinc 12 is needed to ensure good film formation.					
	Before overcoating with recommended 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.					
	Typical topcoats are:					
	Intercryl 530					
	Intercure 200					
	Intercure 420					
	Intergard 251					
	Intergard 269					
	Intergard 475HS					
	Interseal 670HS					
	Intertherm 50					
	Intertherm 715					
	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 application. Alternatively, an epoxy					

minimise bubbling. This will depend upon the age of the Interzinc 12, surface roughness and ambient conditions during curing application. Alternatively, an epoxy sealer coat, such as Intergard 269, can be used to eliminate bubbling problems.

For other suitable intermediates/topcoats, consult International Protective Coatings.

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Additional Information	Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following sections of the International Protective Coatings data manual:			
	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	15 litre unit	Interzinc 12 Binder Interzinc 12 Powder	11.77 litres in a 15 litre plastic bottle 3.23 litres in a 20 litre container		
	4.65 gallon unit	Interzinc 12 Binder Interzinc 12 Powder	3.65 gallons in a 5 gallon container 1.01 gallons in a 3 gallon container		
	For availability of other pack sizes contact International Protective Coatings				
Shipping Weight	U.N. Shipping No. 1263				
	15 litre unit	13.5 kg (29.7 lb) Binde	er (Part A) 24.8 kg (54.7 lb) Powder (Part B)		
	4.65 gallon unit	17.1 kg (37.7 lb) Binde	er (Part A) 28.5 kg (62.8 lb) Powder (Part B)		
Storage	Shelf Life	6 months minimum a thereafter. Store in dr of heat and ignition.	tt 25°C (77°F). Subject to re-inspection ry, shaded conditions away from sources		

Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or 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 whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 16/12/2002

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