

Overcoating Interval with

Inorganic Zinc Rich Silicate

PRODUCT DESCRIPTION	Part of the Interzinc 22 series of products.
	A two component, rapid recoat, fast curing solvent based inorganic zinc rich ethyl silicate primer. Conforms to SSPC Paint 20 Level 2
	Available in ASTM D520, Type II zinc dust version as standard.
INTENDED USES	A zinc primer suitable for use with a wide range of high performance systems and topcoats in both maintenance and new construction of bridges, tanks, pipework and structural steelwork.
	Provides excellent corrosion protection for correctly prepared steel substrates, up to temperatures of 540°C (1004°F) when suitably topcoated.
	East curing primer canable of application in a wide range of climatic conditions

Fast curing primer capable of application in a wide range of climatic conditions.

PRACTICAL INFORMATION FOR INTERZINC 2277

Colour	Green Grey
Gloss Level	Matt
Volume Solids	66%
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 76-114 microns (3-4.6 mils) wet
Theoretical Coverage	8.80 m ² /litre at 75 microns d.f.t and stated volume solids 353 sq.ft/US gallon at 3 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application Drying Time	Airless Spray, Air Spray

			recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
5°C (41°F)	30 minutes	3 hours	18 hours	Extended ¹	
15°C (59°F)	20 minutes	1.5 hours	9 hours	Extended ¹	
25°C (77°F)	10 minutes	1 hour	4.5 hours	Extended ¹	
40°C (104°F)	5 minutes	30 minutes	1.5 hours	Extended ¹	

¹ See International Protective Coatings Definitions and Abbreviations

The drying times quoted have been determined at the quoted temperature and 55% relative humidity. The 5°C (41°F) time was determined at 60% relative humidity. Prior to overcoating, verify a value of 4 via ASTM D4752 MEK rub test. See Product Characteristics section for more details on overcoating.

REGULATORY DATA	Flash Point (Typical)	Part A 13°C (55°F); Mixed 13°C (55°F)		
	Product Weight	2.31 kg/l (19.3 lb/gal)		
	voc	3.92 lb/gal (470 g/lt) 192 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 2010/75/EU)	

See Product Characteristics section for further details

Protective Coatings

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SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to 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 $Sa2\frac{1}{2}$ (ISO 8501-1:2007) or SSPC-SP6 (or SSPC-SP10 for optimum performance). If oxidation has occurred between blasting and application of Interzinc 2277, 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 2277 is suitable for application to unweathered 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.

APPLICATION Mixing Interzinc 2277 is supplied in two parts, and a Powder component (Part B). The added to the liquid Binder (Part A) whils NOT ADD LIQUID TO POWDER. Mate and should be constantly agitated in the been mixed it should be used within the				(Part B). The Powd (Part A) whilst stirri WDER. Material sh agitated in the pot d	ler (Part B) should be slowly ng with a mechanical agitator. DO ould be filtered prior to application luring spraying. Once the unit has	
	Mix Ratio	4 part(s) : 1 p	art(s) by volu	me		
	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	Recommende			53 mm (15-21 thou) ressure at spray tip not less than p.s.i.)	
	Air Spray (Pressure Pot)	Recommende		Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
	Brush	Suitable - sma only		Typically 25-50 mid achieved	crons (1.0-2.0 mils) can be	
	Roller	Not recomme	nded			
	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 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 and elapsed time, including any delays.				
				mpty containers she egulations/legislatio	ould be disposed of in accordance n.	



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PRODUCT CHARACTERISTICS	Prior to overcoating, Interzinc 2277 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 above dew point.			
	When applying Interzinc 2277 in	confined spaces ens	sure adequate ven	tilation.
	If thinning is required to assist sp recommended that International			oically >28°C (82°F)), it is
	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 55%, curing will be retarded. Humidity may be increased by the use of steam or water spraying. However, cure at relative humidities below 55% is more effectively achieved by incorporating the Low Humidity Cure Accelerator*; some example overcoating times at 15°C (59°F) are detailed below;			
	Relative Humidity (%) Minimum Overcoating Interval	20 24 hours	30 10 hours	40 10 hours
	The Interzinc 2277 Application G relative humidities.	Guidelines contain fur	ther information or	n expected cure times at lower
	Excessive film thickness and/or c require complete removal of the a the original specification.			ead to mudcracking, which will re-application in accordance with
	Care should be exercised to avoi	d application of dry fi	Im thickness in ex	cess of 125 microns (5 mils).
	For high temperature service, the thickness of Interzinc 2277 should be restricted to 50 microns of Continuous dry temperature resistance of Interzinc 2277 is 400°C if left untopcoated, however, if product is used as a primer for Intertherm 50 the dry temperature resistance will be 540°C.			
	Untopcoated Interzinc 2277 is no immersion.	ot suitable for exposu	re in acid or alkali	ne conditions or continuous water
	Note: VOC values are typical and variation depending on factors su			
	Low molecular weight reactive ac conditions, will also affect VOC v			
	*Only available in Europe, China,	Middle East, Africa a	and Russia.	
SYSTEMS COMPATIBILITY	When it is necessary for Interzing coating surface must be fresh an subsequent coat of Interzinc 227	d unweathered. A mi	nimum of 50 micro	ons (2 mils) d.f.t of any
		c salts should be rem		77 is fully cured (see above) and face by fresh water washing, and
	Typical topcoats and intermediate	es are:		
	Intercure 420 Inter Intergard 251 Inter	rgard 475HS seal 670HS gard 269 plus 356		
	In some cases it may be necessa will depend upon the age of the lu and application. Alternatively, an bubbling problems.	nterzinc 2277, surfac	ce roughness and	ambient conditions during curing

For other suitable topcoats/intermediates consult International Protective Coatings



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 Surface Paint Ap Theoret Interzine 	ons & Abbreviations Preparation oplication ical & Practical Coverage c 2277 Application Guidelines these information sections are available upon request.
Paint ApTheoretInterzine	oplication ical & Practical Coverage c 2277 Application Guidelines
Theoret Interzine	ical & Practical Coverage c 2277 Application Guidelines
Interzine	c 2277 Application Guidelines
Individual copies of	these information sections are available upon request.
PRECAUTIONS accordance with the	nded for use only by professional applicators in industrial situations in e advice given on this sheet, the Safety Data Sheet and the container(s), and without reference to the Safety Data Sheet (SDS).
	ne application and use of this product should be performed in compliance with all lealth, Safety & Environmental standards and regulations.
	g or flame cutting is performed on metal coated with this product, dust and ed which will require the use of appropriate personal protective equipment and aust ventilation.
If in doubt regarding for further advice.	g the suitability of use of this product, consult International Protective Coatings
PACK SIZE Unit Siz	ze Part A Part B Vol Pack Vol Pack
16.8 litr	
For availabil	ity of other pack sizes, contact International Protective Coatings.
SHIPPING WEIGHT (TYPICAL)	
Shipping we further detai	eights can vary depending on supply point; please contact International Paint for ls.
STORAGE Shelf Life	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	
obtaining written confirmation from us as to the suitability of the p	e; any person using the product for any purpose other than that specifically recommended in this data sheet without first roduct for the intended purpose does so at their own risk. All advice given or statements made about the product pur knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the

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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