

Inorganic Zinc Rich Silicate

PRODUCT DESCRIPTION A single component, zinc rich inorganic silicate primer, giving exceptional cathodic protection together with ease of use and application.

INTENDED USES As a versatile touch-up primer for use on site when zinc silicate primed steelwork is required.

PRACTICAL INFORMATION FOR INTERZINC 553

Colour Grey Green

Gloss Level Matt

Volume Solids 60%

Typical Thickness 80 microns (3.2 mils) dry equivalent to 133 microns (5.3 mils) wet

Theoretical Coverage 7.50 m²/litre at 80 microns d.f.t and stated volume solids
301 sq.ft/US gallon at 3.2 mils d.f.t and stated volume solids

Practical Coverage Allow appropriate loss factors

Method of Application Airless Spray, Air Spray, Brush, Roller

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
10°C (50°F)	40 minutes	72 hours	24 hours	12 months
20°C (68°F)	20 minutes	48 hours	12 hours	12 months
30°C (86°F)	10 minutes	24 hours	12 hours	12 months

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) 21°C (70°F)

Product Weight 2.45 kg/l (20.4 lb/gal)

VOC 229 g/kg EU Solvent Emissions Directive (Council Directive 1999/13/EC)

See Product Characteristics section for further details

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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 8504:2000.

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-SP10. If oxidation has occurred between blasting and application of Interzinc 553, 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 50-75 microns (2-3 mils) is recommended.

This product is NOT recommended over hand prepared steel.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.		
Mix Ratio	Not applicable		
Airless Spray	Recommended	Tip Range 0.45-0.54 mm (18-21 thou) Total output fluid pressure at spray tip not less than 80 kg/cm ² (1138 p.s.i.)	
Air Spray (Pressure Pot)	Suitable	Gun	DeVilbiss MBC or JGA
		Air Cap	704 or 765
		Fluid Tip	E
Brush	Suitable - Small touch-up areas only	Typically 50 microns (2.0 mils) can be achieved	
Roller	Suitable - Small touch-up areas only	Typically 50 microns (2.0 mils) can be achieved	
Thinner	International GTA007	Do not thin more than allowed by local environmental legislation	
Cleaner	International GTA007		
Work Stoppages	Thoroughly flush all equipment with International GTA007. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered prior to use.		
Clean Up	Clean all equipment immediately after use with International GTA007. 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.		
	All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.		

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PRODUCT CHARACTERISTICS

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Application by air spray may require a multiple cross spray pattern to attain maximum film build. Low or high temperatures may require specific application techniques to achieve maximum film build.

When applying Interzinc 553 in confined spaces ensure adequate ventilation.

Prior to overcoating, Interzinc 553 must be clean, dry and free from both soluble salts and excessive zinc corrosion products.

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 ambient temperature and relative humidity during the application and curing period.

It is recommended that, prior to overcoating, a solvent rub test using the method described in ASTM D4752 and using International GTA220 solvent is carried out. 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.

Excessive film thickness and/or over-application of Interzinc 553 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.

For high temperature service, the thickness of Interzinc 553 should be restricted to 50 microns d.f.t. Continuous dry temperature resistance of Interzinc 553 is 400°C if left untopcoated, however, if this product is used as a primer for Intertherm 50 the dry temperature resistance will be 540°C.

Alkyd based systems should not be applied to Interzinc 553.

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

SYSTEMS COMPATIBILITY

Interzinc 553 is recommended for application to steel blasted to Sa2½ (ISO 8501-1:2007).

The following topcoats are recommended for Interzinc 553:

Intertherm 50

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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 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	Vol	Pack
	12 litre	12 litre	12 litre
For availability of other pack sizes, contact International Protective Coatings.			
SHIPPING WEIGHT (TYPICAL)	Unit Size		
	12 litre	31.11 kg	
STORAGE	Shelf Life	6 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 or 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 our 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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