Interzinc® 125

Inorganic Zinc Rich Silicate

PRODUCT DESCRIPTION

Interzinc 125 is a self curing ethyl silicate based zinc rich coating with the zinc powder incorporated into the liquid component to give a single pack product.

This product complies with the composition and performance requirements of SSPC Paint 20 and is characterised by excellent anticorrosive properties and easy application.

INTENDED USES

Interzinc 125 is designed specifically as a high performance cost effective alternative to hot dip galvanising where long term anticorrosive performance is required, with the added benefit of colour flexibility.

In addition to applications requiring colour versatility, Interzinc 125 is particularly suitable for all situations where a single pack product would offer benefits, such as areas difficult to access, cases where only small quantities of product are to be used intermittently, or where the ready to use nature of the product will save labour.

Interzinc 125 is suitable for structural steel and tank work in all environments where an AS/NZS 3750.15 Type 4 coating would traditionally be used.

PRACTICAL INFORMATION FOR INTERZINC 125

Colour	Rivergum, Grey Gum, Powder Blue, Light Grey
Gloss Level	Matt
Volume Solids	60%
Typical Thickness	75-125 microns (3-5 mils) dry equivalent to 125-208 microns (5-8.3 mils) wet
Theoretical Coverage	4.80 m²/litre at 125 microns d.f.t and stated volume solids 192 sq.ft/US gallon at 5 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush

Drying Time

			Overcoating interval with self	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
5°C (41°F)	45 minutes	5 hours	2 hours	Extended[1]
15°C (59°F)	35 minutes	2 hours	90 minutes	Extended[1]
25°C (77°F)	30 minutes	90 minutes	1 hour	Extended[1]
40°C (104°F)	15 minutes	1 hour	45 minutes	Extended[1]

[1] See International Protective Coatings Definitions and Abbreviations

Drying times are dependent upon ambient conditions. The figures quoted above have been determined at the quoted temperature and 60% relative humidity

At temperatures below 18ºC, 75µm is the recommended maximum film build in a single coat. Applications requiring 125µm DFT should be applied in 2 coats at these temperatures.

REGULATORY DATA

Flash Point (Typical)	27°C (81°F)	
Product Weight	2.55 kg/l (21.3 lb/gal)	
VOC	563 g/l	UK - PG6/23(04), Appendix 3

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 Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Interzinc 125, 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 (1.6-3.0 mils) is recommended.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application. Interzinc 125 should be continuously agitated during application to prevent settlement of the zinc dust component, which can result in variations of finish colour.		
Mix Ratio	Not applicable		
Airless Spray	Recommended	Tip Range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 106 kg/cm² (1507 p.s.i.)	
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
Brush	Suitable - small areas only	Typically 25-50 microns (1.0-2.0 mils) can be achieved	
Roller	Not recommended		
Thinner	International GTA415	Do not thin more than allowed by local environmental legislation	
Cleaner	International GTA415		

Work Stoppages

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA415. 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 GTA415.

It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature and elapsed time, including any delays.

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

PRODUCT CHARACTERISTICS

This product is not suitable for exposure in acid or alkaline conditions or continuous water immersion. It is not intended for use in very aggressive, corrosive environments or on heavily pitted or contaminated steel.

For brush application, two coats or more of Interzinc 125 may be required to give uniform coverage. The final appearance of Interzinc 125, with regard to colour and finish, is dependent on application method. Avoid using a mixture of application methods whenever possible.

Over-application of Interzinc 125 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties. Excessive film thickness and/or over-application of Interzinc 125 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.

When applying Interzinc 125 in confined spaces ensure adequate ventilation.

At relative humidities below 50%, curing will be severely retarded and humidity may need to be increased by steam or water spraying.

The maximum achievable hold-up of Interzinc 125 decreases at temperatures below 18ºC (64°F). When applying under these conditions, film builds over 75 microns (3 mils) DFT should be achieved by the application of two coats.

Prior to overcoating with itself, Interzinc 125 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.

For high temperature systems the thickness of Interzinc 125 should be restricted to 75 microns (3 mils) DFT. Continuous dry temperature resistance of Interzinc 125 is 400°C (752°F), however at temperatures above 200ºC (392ºF), some change in colour will be evident.

This product meets the formulation and performance requirements of:

- SSPC Paint Specification No. 20
- AS3750.15 Type 4

SYSTEMS COMPATIBILITY

When it is necessary for Interzinc 125 to be overcoated by itself due to low dry film thickness, a minimum of 50 microns (2 mils) dry film thickness of any subsequent coat of Interzinc 125 is needed to ensure good film formation.

Interzinc 125 is primarily formulated as a finish coat in its own right and as such, should not normally be topcoated with other products. For more information on possible suitable topcoats, consult International Protective Coatings.

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
	10 litre	10 litre	10 litre
	For availability of other pack sizes, contact International Protective Coatings.		
SHIPPING WEIGHT (TYPICAL)	Unit Size		
	10 litre	25.5 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

www.international-pc.com