Epoxy Zinc-Rich



A two component, metallic zinc rich epoxy primer which complies with the composition and performance requirements of SSPC Paint 20.

INTENDED USES

As a high performance primer to give maximum protection as part of any anti-corrosive coating system for aggressive environments including those found on offshore structures, petrochemical facilities, pulp and paper plants, bridges and power plants.

Interzinc 52 has been designed to provide excellent corrosion resistance in both maintenance and new construction situations.

PRACTICAL INFORMATION FOR INTERZINC 52

Colour Blue, Grey, Green

Gloss Level Matt

Volume Solids $59\% \pm 2\%$

Typical Thickness 50-75 microns (2-3 mils) dry equivalent to

85-127 microns (3.4-5.1 mils) wet

Theoretical Coverage 7.87 m²/litre at 75 microns d.f.t and stated volume solids

315 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, Brush

Drying Time

Overcoating Interval with recommended topcoats

KInternational

| Temperature | Touch Dry | Hard Dry | Minimum | Maximum |
|--------------|------------|----------|---------|-----------------------|
| 5°C (41°F) | 2 hours | 10 hours | 8 hours | Extended ¹ |
| 15°C (59°F) | 90 minutes | 6 hours | 4 hours | Extended ¹ |
| 25°C (77°F) | 75 minutes | 4 hours | 3 hours | Extended ¹ |
| 40°C (104°F) | 45 minutes | 2 hours | 2 hours | Extended ¹ |

¹ See International Protective Coatings Definitions and Abbreviations

For curing at low temperatures an alternative curing agent is available. See Product Characteristics for details.

Maximum overcoating intervals are shorter when using polysiloxane topcoats. Consult International Protective Coatings for further details.

REGULATORY DATA

Flash Point (Typical) Part A 29°C (84°F); Part B 30°C (86°F); Mixed 29°C (84°F)

Product Weight 2.52 kg/l (21.0 lb/gal)

voc 2.80 lb/gal (336 g/lt) EPA Method 24

152 g/kg EU Solvent Emissions Directive

(Council Directive 1999/13/EC)

360 g/lt Chinese National Standard GB23985

See Product Characteristics section for further details

Protective Coatings

Worldwide Product

Epoxy Zinc-Rich

SURFACE **PREPARATION** **KInternational**

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 52, 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.

Shop Primed Steelwork

Interzinc 52 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 cleaned to a minimum St3 (ISO 8501-1:2007) or SSPC-SP3. Optimum performance will be achieved with blasting to Sa21/2 (ISO 8501-1:2007) or SSPC-SP6; where this is not practical, power tool preparation to SSPC-SP11 is recommended.

APPLICATION

Mixing Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified. Agitate Base (Part A) with a power agitator. (1) (2) Combine entire contents of Curing Agent (Part B) with Base

Mix Ratio 4 part(s): 1 part(s) by volume

Working Pot Life 5°C (41°F) 15°C (59°F) 25°C (77°F) 40°C (104°F)

24 hours 12 hours 5 hours 2 hours

(Part A) and mix thoroughly with power agitator.

Tip Range 0.43-0.53 mm (17-21 thou) Airless Spray Recommended

Total output fluid pressure at spray tip not less than 176

kg/cm² (2503 p.s.i.)

Air Spray Recommended DeVilbiss MBC or JGA Gun (Pressure Pot)

Air Cap 704 or 765

Fluid Tip E

Brush Suitable - small areas only Typically 50-75 microns (2.0-3.0 mils) can be achieved

Roller Not recommended

International GTA220 Thinner Thinning is not normally required. Consult the local representative for advice during application in extreme (or International GTA415)

conditions. Do not thin more than allowed by local

environmental legislation.

Cleaner International GTA822 (or International GTA415)

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. Once units of paint have been mixed they Work Stoppages

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 GTA822. 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 approrpriate regional regulations/legislation.

Epoxy Zinc-Rich

PRODUCT CHARACTERISTICS



In order to ensure good anti-corrosive performance, it is important to achieve a minimum dry film thickness of Interzinc 52 of 40 microns (1.5 mils). To achieve a uniform, coalesced, closed film at this dry film thickness, it will be necessary to thin Interzinc 52 10% with International thinners. The film thickness of Interzinc 52 applied must be compatible with the blast profile achieved during surface preparation. Low film thickness should not be applied over coarse blast profiles.

Care should be excercised to avoid the application of dry film thicknesses in excess of 150 microns (6 mils). Care should be exercised to avoid over-application, which may result in cohesive film failure with subsequent high builds, and to avoid dry spray which can lead to pinholing of subsequent coats. Over-application will also result in slower curing and extended handling and overcoating times. Over-application of Interzinc 52 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

When Interzinc 52 is allowed to weather before topcoating ensure all zinc salts are removed prior to paint application and only topcoat with recommended materials.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Interzinc 52 is not normally recommended for underwater use. Please consult International Protective Coatings for details in this situation.

Interzinc 52 is suitable for the localised repair of damaged inorganic zinc primer - consult International Protective Coatings for specific advice.

Low Temperature Curing

An alternative curing agent is available for applications at temperatures less than 5°C (41°F). When using this alternative curing agent it should be noted that the VOC will increase to 384 g/l (EPA Method 24) and the Part B flash point is 24°C (79°F).

Interzinc 52 is capable of curing at temperatures below 0° C (32°F). However, this product should not be applied at temperatures below 0° C (32°F) where there is a possibility of ice formation on the substrate.

| | | | Minimum over with recommer | | |
|-------------|------------|-----------|-------------------------------|-----------|-----------|
| Temperature | Touch Dry | Hard Dry | Minimum | Maximum | Pot Life |
| -5°C (23°F) | 3 hours | 31 hours | 31 hours | Extended* | 18 hours |
| 0°C (32°F) | 2.5 hours | 16 hours | 16 hours | Extended* | 18 hours |
| 5°C (41°F) | 30 minutes | 4 hours | 4 hours | Extended* | 18 hours |
| 15°C (59°F) | 20 minutes | 3.5 hours | 3.5 hours | Extended* | 8 hours |
| 25°C (77°F) | 15 minutes | 3 hours | 3 hours | Extended* | 2.5 hours |

Touch dry times shown above are actual drying times due to chemical cure, rather than physical set due to solidification of the coating film at temperatures below 0°C (32°F)

For further details regarding cure times and overcoatability, please contact International Protective Coatings.

This product has the following specification approvals:

Steel Structures Painting Council - SSPC Paint 20

On consultation with International Protective Coatings this product is compatible with alternative application methods such as flow coating.

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.

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 COMPATIBILITY

Interzinc 52 is designed for application to correctly prepared steel. However, it is also possible to apply over approved prefabrication primers. Further details of these can be obtained from International Protective Coatings. Recommended topcoats are:

| Intercure 200 | InterH2O 401 |
|-----------------|-----------------|
| Intercure 420 | Interseal 670HS |
| Interfine 629HS | Interthane 990 |
| Intergard 251 | Interzone 1000 |
| Intergard 269 | Interzone 505 |
| Intergard 475HS | Interzone 954 |
| Intergard 740 | |

For other suitable topcoats, consult International Protective Coatings.

^{*} See International Protective Coatings Definitions & Abbreviations

Epoxy Zinc-Rich

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 | Part / Vol | A Pack | Part B Vol | Pack |
|-----------------|--------------------------|------------------|------------------|-------------------|------------------------------------|
| | 10 litre | 8 litre | 10 litre | 2 litre | 2.5 litre |
| | 3 US gal | 2.4 US gal | 3.5 US gal | 0.6 US gal | 1 US gal |
| | For availability of othe | r pack sizes, co | ontact Internati | onal Protective C | oatings. |
| SHIPPING WEIGHT | Unit Size | Pa | art A | Part B | |
| (TYPICAL) | 10 litre | 24 | .5 kg | 2.1 kg | |
| | 3 US gal | 63 | 3.3 lb | 5.3 lb | |
| STORAGE | Shelf Life | 12 months m | inimum at 25° | C (77°E) Subject | to re-inspection thereafter. Store |
| STURAGE | Sileli Lile | | | | 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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