

PRODUCT DESCRIPTION

A two component, abrasion resistant pure epoxy coating pigmented with aluminium to give excellent long term anti-corrosive protection.

Formulated on proprietary polymer technology, enabling rapid cure and overcoating even under low temperature conditions.

INTENDED USES

As an abrasion resistant coating that can reduce corrosion due to mechanical damage and provide barrier protection in aggressive environments.

Ideally suited for use as a universal primer on offshore platforms and floating production and storage facilities on areas such as underwater hull, topsides, external superstructure, decks, cargo tanks and ballast tanks.

Can be applied directly to mechanically prepared shop primer or suitably prepared bare steel.

PRACTICAL INFORMATION FOR INTERSHIELD 300

| | |
|------------------------------|---|
| Colour | Bronze, Aluminium |
| Gloss Level | Matt |
| Volume Solids | 60% ± 2% |
| Typical Thickness | 100-200 microns (4-8 mils) dry equivalent to 167-333 microns (6.7-13.3 mils) wet |
| Theoretical Coverage | 4 m ² /litre at 150 microns d.f.t and stated volume solids 160 sq.ft/US gallon at 6 mils d.f.t and stated volume solids |
| Practical Coverage | Allow appropriate loss factors |
| Method of Application | Airless Spray, Brush, Roller |
| Drying Time | |

Overcoating interval with self

| Temperature | Touch Dry | Hard Dry | Minimum | Maximum |
|--------------|-----------|-----------|----------|----------------------|
| -5°C (23°F) | 7 hours | 10 hours | 14 hours | 14 days ¹ |
| 5°C (41°F) | 5 hours | 8 hours | 9 hours | 14 days ¹ |
| 15°C (59°F) | 4 hours | 7 hours | 8 hours | 14 days ¹ |
| 25°C (77°F) | 3 hours | 6 hours | 7 hours | 14 days ¹ |
| 40°C (104°F) | 1.5 hours | 2.5 hours | 3 hours | 10 days ¹ |

¹ Values given refer to situations where immersion is likely to occur; for atmospheric service, see Product Characteristics section.

REGULATORY DATA

| | | |
|-----------------------|---|---|
| Flash Point | Part A 28°C (82°F); Part B 26°C (79°F); Mixed 28°C (82°F) | |
| Product Weight | 1.23 kg/l (10.3 lb/gal) | |
| VOC | 3.22 lb/gal (386 g/l) 318 g/kg | EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC) |

See Product Characteristics section for further details

**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

For immersion service, Intershield 300 must be applied to surfaces blast cleaned to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. However, for atmospheric exposure Intershield 300 may be applied to surfaces prepared to a minimum of Sa2½ (ISO 8501-1:2007) or SSPC-SP6.

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.

Ultra High Pressure Hydroblasting / Abrasive Wet Blasting

May be applied to surfaces prepared to Sa2 (ISO 8501-1:2007) or SSPC SP6 which have flash rusted to no worse than Grade HB2M (refer to International Hydroblasting Standards) or Grade SB2M (refer to International Slurry Blasting Standards).

Shop Primed Steel

Areas of breakdown, damage, weld seams etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC-SP10 or power tool cleaned to Pt3 (JSRA SPSS:1984) or SSPC-SP11).

Intact, approved shop primers must be clean, dry and free from soluble salts and any other surface contaminants. Unapproved shop primers will require complete removal by blast cleaning to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. In some cases sweep blasting to a defined International Paint standard (eg AS2 or AS3) may be acceptable.

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. | | | | |
| | (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. | | | | |
| Mix Ratio | 2.5 part(s) : 1.0 part(s) by volume | | | | |
| Working Pot Life | -5°C (23°F) | 5°C (41°F) | 15°C (59°F) | 25°C (77°F) | 40°C (104°F) |
| | 6 hours | 6 hours | 4 hours | 2.5 hours | 45 minutes |
| Airless Spray | Recommended | Tip Range 0.66-0.79 mm (26-31 thou) Total output fluid pressure at spray tip not less than 211 kg/cm ² (3000 p.s.i.) | | | |
| Air Spray (Pressure Pot) | Not recommended | | | | |
| Brush | Suitable - small areas only | Typically 50-75 microns (2.0-3.0 mils) can be achieved | | | |
| Roller | Suitable - small areas only | Typically 50-75 microns (2.0-3.0 mils) can be achieved | | | |
| Thinner | International GTA220 | Do not thin more than allowed by local environmental legislation | | | |
| Cleaner | International GTA822 (or International GTA220) | | | | |
| Work Stoppages | Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA220. 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 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 appropriate regional regulations/legislation. | | | | |

PRODUCT CHARACTERISTICS

Apply by airless spray only. Application by other methods, e.g. brush, roller, may require more than one coat and should only be used for small areas or touch-up work.

This product must only be thinned using recommended International thinners. The use of alternative thinners, particularly those containing ketones, can severely inhibit the curing mechanism of the coating.

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

When applying Intershield 300 in confined spaces ensure adequate ventilation.

In common with all epoxies Intershield 300 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Over-application of Intershield 300 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

Intershield 300 should be high pressure water washed and/or solvent washed prior to overcoating, where necessary, to ensure removal of any surface contamination that has accumulated.

Intershield 300 may be applied at substrate temperatures between -5°C and -20°C in certain locations worldwide. However, consideration should be given when overcoating at low temperatures as the remainder of the system may require higher temperatures to achieve full cure.

Overcoating Intervals with Recommended Topcoats (Atmospheric Service Conditions)

| Recommended Topcoat | -5°C (23°F) | | 5°C (41°F) | | 25°C (77°F) | | 40°C (104°F) | |
|---------------------|-------------|------------|------------|------------|-------------|------------|--------------|------------|
| | <i>Min</i> | <i>Max</i> | <i>Min</i> | <i>Max</i> | <i>Min</i> | <i>Max</i> | <i>Min</i> | <i>Max</i> |
| Interfine 979 | NA | NA | 8 hours | 7 days | 6 hours | 7 days | 2 hours | 6 days |
| Intergard 263 | 14 hours | 14 days | 9 hours | 14 days | 7 hours | 14 days | 3 hours | 14 days |
| Intergard 269 | 14 hours | 6 months | 9 hours | 6 months | 7 hours | 6 months | 3 hours | 10 weeks |
| Intergard 740 | 14 hours | 14 days | 9 hours | 7 days | 7 hours | 4 days | 3 hours | 3 days |
| Intershield 300 | 14 hours | 6 months | 9 hours | 6 months | 7 hours | 6 months | 4 hours | 3 months |
| Intersleek 737 | NA | NA | 7 hours | 24 hours | 5 hours | 9 hours | 2.5 hours | 5.5 hours |
| Interthane 990 | 14 hours | 5 days | 9 hours | 5 days | 7 hours | 3 days | 4 hours | 36 hours |

When Intershield 300 is to be overcoated with Intersleek 737, the following maximum pot lives must be observed:

| 0°C (32°F) | 15°C (59°F) | 25°C (77°F) | 35°C (95°F) |
|-------------|-------------|-------------|-------------|
| 160 minutes | 105 minutes | 75 minutes | 45 minutes |

This product has the following specification approvals:

- B1 Classification of Ballast Tank Coatings (DNV/Marintek tested)
- Ballast Tank type approval (Germanischer Lloyd)
- Recognised Corrosion Control Coating (Lloyd's Register)
- Norsok M-501 System 3B

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

Intershield 300 will normally be applied to correctly prepared steel substrates. However, it can be used over suitably primed surfaces. Suitable primers are:

| | |
|----------------|-----------------|
| Intergard 269 | Interplate 977 |
| Interplate 855 | Interplate 997 |
| Interplate 937 | Intershield 300 |

Suitable topcoats are:

| | |
|---------------|-----------------|
| Interfine 979 | Intershield 300 |
| Intergard 263 | Intersleek 717 |
| Intergard 269 | Intersleek 737 |
| Intergard 740 | Interthane 990 |

For other suitable primers/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 | Part A | | Part B | |
|--|------------|--|------------|------------|------------|
| | | Vol | Pack | Vol | Pack |
| | 17.5 litre | 12.5 litre | 20 litre | 5 litre | 5 litre |
| | 4.6 US gal | 3.3 US gal | 5.3 US gal | 1.3 US gal | 1.3 US gal |
| For availability of other pack sizes, contact International Protective Coatings. | | | | | |
| SHIPPING WEIGHT | Unit Size | Part A | | Part B | |
| | | 18 kg | | 5.2 kg | |
| | 17.5 litre | 18 kg | | 5.2 kg | |
| 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

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 International Paint representative that this data sheet is current prior to using the product.

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