# Interfine® 2700

## Epoxy Polysiloxane

**PRODUCT DESCRIPTION**

A direct-to-metal isocyanate free epoxy type polysiloxane.

This product combines the excellent gloss retention of a typical polyurethane finish with the corrosion resistance, chemical resistance and abrasion resistance displayed by traditional epoxy technology.

**INTENDED USES**

Interfine 2700 is part of International's premium range of polysiloxane finishes. It is designed to provide excellent color and gloss retention and provide extended lifetime to first maintenance when utilised as part of a high performance anti-corrosive system. Interfine 2700 is intended for use in those market sectors where visual impact is important, and the need for a high standard of cosmetic appearance is required. These include high performance constructions such as bridges, offshore structures and tank farms in addition to general industrial and commercial steelwork where high levels of cosmetic performance are a key requirement.

Interfine 2700 offers the dual benefits of corrosion protection and excellent cosmetic appearance. Providing anticorrosive protection similar to that of traditional epoxy intermediates, Interfine 2700 offers the potential to reduce scheme complexity within multicoat high performance systems - resulting in cost savings and improved productivity during application. Interfine 2700 can also be applied direct-to-metal (some in-service limitations apply. Consult your local representative for more information).

**PRACTICAL INFORMATION FOR INTERFINE 2700**

| | |
|---|---|
| **Color** | Range of colors available via Chromascan for use in non-corrosive environments |
| **Gloss Level** | High Gloss |
| **Volume Solids** | 86% ± 3% (depends on color) |
| **Typical Thickness** | 3-7.1 mils (76-178 microns) dry equivalent to 3.5-8.3 mils (88-207 microns) wet |
| **Theoretical Coverage** | 276 sq.ft/US gallon at 5 mils d.f.t and stated volume solids<br>6.88 m²/liter at 125 microns d.f.t and stated volume solids |
| **Practical Coverage** | Allow appropriate loss factors |
| **Method of Application** | Air Spray, Airless Spray, Brush, Roller |

**Drying Time**

| | | | Overcoating interval with self | |
|---|---|---|---|---|
| **Temperature** | **Touch Dry** | **Hard Dry** | *Minimum* | *Maximum* |
| 59°F (15°C) | 6.5 hours | 15 hours | 11 hours | Extended[1] |
| 77°F (25°C) | 4.5 hours | 9 hours | 7.5 hours | Extended[1] |
| 104°F (40°C) | 2.5 hours | 5.5 hours | 4 hours | Extended[1] |

[1] See International Protective Coatings Definitions & Abbreviations

The drying times quoted have been determined at the quoted temperature and 50% relative humidity.

Drying and overcoating times above refer to use with SYA046 curing agent. Please refer to page 3 for data on use with SYA056.

**REGULATORY DATA**

| | | |
|---|---|---|
| **Flash Point (Typical)** | Part A 151°F (66°C); Part B 126°F (52°C); Mixed 129°F (54°C) | |
| **Product Weight** | 11.4 lb/gal (1.37 kg/l) | |
| **VOC** | 0.96 lb/gal (115 g/lt) | EPA Method 24 |

Coating hazard marker GB 30981.2-S-Pb≤90-C Qualified for GB 30981.2-2025

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 application, all surfaces should be assessed and treated in accordance with ISO 8504:2000

Direct to Metal

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. Immediately prior to coating application, the surface shall comply with the specified degree of cleaning.
A sharp, angular profile of 1-2 mils maximum (25-50 microns maximum) is recommended. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

**Primed Surfaces**

Interfine 2700 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interfine 2700 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. SSPC-SP6 or Sa2½ (ISO 8501-1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Interfine 2700.

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**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**

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

**Working Pot Life**

| 59°F (15°C) | 77°F (25°C) | 104°F (40°C) |
|---|---|---|
| 3 hours | 2 hours | 1 hours |

| | | | |
|---|---|---|---|
| **Airless Spray** | Recommended | Tip Range 11-21 thou (0.28-0.53 mm)<br>Total output fluid pressure at spray tip not less than 2200 psi (155 kg/cm²) | |
| **Air Spray (Conventional)** | Recommended | Gun<br>Air Cap<br>Fluid Tip | DeVilbiss MBC or JGA<br>704 or 765<br>E |
| **Brush** | Suitable | Typically 2-3 mils (50-75 microns) can be achieved | |
| **Roller** | Suitable | Typically 2-3 mils (50-75 microns) can be achieved | |
| **Thinner** | International GTA007 | 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.

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**PRODUCT CHARACTERISTICS**

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods. Best results in terms of gloss and appearance will always be obtained with conventional air spray application.

When applying Interfine 2700 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

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

Pot life times must not be exceeded even though the material may be still liquid and appear useable. Failure to comply with this will result in a film with inferior performance.
Surface temperature must always be a minimum of 5°F (3°C) above dew point.

In common with all polysiloxane coatings, care must be taken when applying multiple coats of Interfine 2700 to ensure that a continuous wet film is applied and a minimum dry film thickness of 4 mils (100 microns) is achieved. Failure to do so may result in pinholing which will detract from ultimate appearance and performance.

For direct to metal applications apply a stripe coat to assure edge retention.

When applying Interfine 2700 in confined spaces, ensure adequate ventilation.

Interfine 2700 will cure satisfactorily at relative humidities between 40% and 85%. Curing will be slower at lower humidities and faster at higher humidities.

Condensation occurring during or immediately after application may result in a matte finish and an inferior film.

When overcoating after weathering or ageing, ensure the coating is fully cleaned to remove all surface contamination such as oil, grease, and salt crystals, before application of a further coat of Interfine 2700.

Premature exposure to ponding water will cause color change, especially in dark colors and at low temperatures.

Absolute measured adhesion of topcoats to aged Interfine 2700 is less than that to fresh material, however, it is adequate for the specified end use.

This product is not recommended for use in immersion conditions. When severe chemical or solvent splashing is likely to occur, contact International Protective Coatings for information regarding suitability.

Alternative Curing Agent (SYA056)

| | | | Overcoating Interval with self | |
|---|---|---|---|---|
| Temperature | Touch Dry | Hard Dry | *Minimum* | *Maximum* |
| 41°F (5°C) | 4 hours | 24 hours | 24 hours | Extended* |
| 59°F (15°C) | 2 hours | 12 hours | 12 hours | Extended* |
| 77°F (25°C) | 1 hour | 4 hours | 4 hours | Extended* |
| 104°F (40°C) | 45 minutes | 2 hours | 2 hours | Extended* |

*See International Protective Coatings Definitions & Abbreviations

The drying times quoted have been determined at the quoted temperature and 50% relative humidity.

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 color 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.

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**SYSTEMS COMPATIBILITY**

The following primers/intermediates are recommended for Interfine 2700:

| | | |
|---|---|---|
| Bar-Rust 233H | Bar-Rust 235 | Cathacoat 302H |
| Cathacoat 302HB | Intercure 200HS | Intergard 251HS |
| Intergard 475HS | Interseal 670HS | Intershield 300HS |
| Interzinc 52E | Interzinc 22 | Interzinc 52 |
| Interzinc 52HS | Interzone 954 | Interzone 9545 |

For other suitable primers/intermediates, consult International Protective Coatings.

Interfine 2700 must not be applied directly over Interzinc 52 low temperature grade cure (EPA176).

Absolute maximum overcoating intervals with Interfine 2700 are dependent upon primer.

Interfine 2700 should only be overcoated with itself.

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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.

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**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 Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

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 AkzoNobel for further advice.

| | | | | | |
|---|---|---|---|---|---|
| **PACK SIZE** | Unit Size | Part A | | Part B | |
| | | Vol | Pack | Vol | Pack |
| | 5 US gal | 4 US gal | 5 US gal | 1 US gal | 1 US gal |
| | For availability of other pack sizes, contact AkzoNobel. | | | | |
| **SHIPPING WEIGHT (TYPICAL)** | Unit Size | Part A | | Part B | |
| | 5 US gal | 53.2 lb | | 9.0 lb | |
| **STORAGE** | Shelf Life | 12 months at 77ºF (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. | | | |

### Disclaimer

*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.*

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