**PRODUCT DESCRIPTION**

A low VOC, two component high build, high solids surface tolerant epoxy maintenance coating.

**INTENDED USES**

For application to a wide variety of substrates including hand prepared rusty steel, abrasive blast cleaned and hydroblasted steel, and a wide range of intact, aged coatings. Provides excellent anti-corrosive protection in industrial, coastal structures, pulp and paper plants, bridges and offshore environments in both atmospheric exposure and immersion service.

**PRACTICAL INFORMATION FOR INTERSEAL 670HS**

<table>
<thead>
<tr>
<th>Color</th>
<th>Available in a wide range of colors including Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloss Level</td>
<td>Semi-gloss (Aluminum is eggshell)</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>82% ± 3% (depends on color)</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>4-10 mils (100-250 microns) dry equivalent to 4.9-12.2 mils (122-305 microns) wet</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>263 sq.ft/US gallon at 5 mils d.f.t and stated volume solids</td>
</tr>
<tr>
<td>Practical Coverage</td>
<td>Allow appropriate loss factors</td>
</tr>
<tr>
<td>Method of Application</td>
<td>Airless spray, Air spray, Brush, Roller</td>
</tr>
</tbody>
</table>

**Drying Time ▲**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Touch Dry</th>
<th>Hard Dry</th>
<th>Overcoating Interval Interseal 670HS with Self</th>
<th>Overcoating Interval with recommended topcoats</th>
</tr>
</thead>
<tbody>
<tr>
<td>50°F (10°C)</td>
<td>8 hours</td>
<td>32 hours</td>
<td>32 hours 6 weeks Extended* 20 hours 21 days 12 weeks</td>
<td></td>
</tr>
<tr>
<td>59°F (15°C)</td>
<td>7 hours</td>
<td>26 hours</td>
<td>26 hours 4 weeks Extended* 14 hours 14 days 8 weeks</td>
<td></td>
</tr>
<tr>
<td>77°F (25°C)</td>
<td>5 hours</td>
<td>18 hours</td>
<td>18 hours 14 days Extended* 10 hours 7 days 4 weeks</td>
<td></td>
</tr>
<tr>
<td>104°F (40°C)</td>
<td>2 hours</td>
<td>6 hours</td>
<td>6 hours 7 days Extended* 4 hours 3 days 2 weeks</td>
<td></td>
</tr>
</tbody>
</table>

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

● Refers to situations where immersion is likely to occur

† Refer to atmospheric service only

* See International Protective Coatings Definitions & Abbreviations

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

**REGULATORY DATA**

<table>
<thead>
<tr>
<th>Flash Point (Typical)</th>
<th>Base (Part A) 97°F (36°C)</th>
<th>Curing Agent (Part B) 133°F (56°C)</th>
<th>Mixed 91°F (33°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Weight</td>
<td>13.3 lb/gal (1.6 kg/l)</td>
<td>EU Solvent Emissions Directive</td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>114 g/kg</td>
<td>(Council Directive 1999/13/EC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.00 lb/gal (240 g/l)</td>
<td>EPA Method 24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>151 g/l</td>
<td>Chinese National Standard GB23985</td>
<td></td>
</tr>
</tbody>
</table>
SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface 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.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by fresh water washing.

Abrasive Blast Cleaning

For immersion service, Interseal 670HS must be applied to surfaces blast cleaned to Sa2.5 (ISO 8501-1:2007) or SSPC-SP10. However, for atmospheric exposure best performance will be achieved when Interseal 670HS is applied to surfaces prepared to a minimum of Sa2.5 (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 2-3 mils (50-75 microns) is recommended.

Hand or Power Tool Preparation

Hand or power tool clean to a minimum St2 (ISO 8501-1:2007) or SSPC-SP2.

Note, all scale must be removed and areas which cannot be prepared adequately by chipping or needle gun should be spot blasted to a minimum standard of Sa2 (ISO 8501-1:2007) or SSPC-SP6. Typically this would apply to C or D grade rusting in this standard.

Ultra High Pressure Hydroblasting/Abrasive Wet Blasting

May be applied to surfaces prepared to Sa2.5 (ISO 8501-1:2007) or SSPC-SP6 which have flash rusted to no worse than Grade HB2.5M (refer to International Hydroblasting Standards) or Grade SB2.5M (refer to International Slurry blasting Standards). It is also possible to apply to damp surfaces in some circumstances. Further information is available from International Protective Coatings.

Aged Coatings

Interseal 670HS is suitable for overcoating a limited range of intact, tightly adherent aged coatings. Loose or flaking coatings should be removed back to a firm edge. Glossy finishes may require light abrasion to provide a physical ‘key’. See Product Characteristics section for further information.

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

5.67 parts : 1.00 part by volume

Working Pot Life

<table>
<thead>
<tr>
<th>Temperature</th>
<th>50°F (10°C)</th>
<th>59°F (15°C)</th>
<th>77°F (25°C)</th>
<th>104°F (40°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>5 hours</td>
<td>3 hours</td>
<td>2 hours</td>
<td>1 hour</td>
</tr>
</tbody>
</table>

Airless Spray

Recommended Tip range 18-23 thou (0.45-0.58 mm)
Total output fluid pressure at spray tip not less than 2,500 p.s.i. (176 kg/cm²)

Air Spray (Pressure Pot)

Recommended Gun DeVilbiss MBC or JGA
Air Cap 704 or 765
Fluid Tip E

Brush

Recommended Typically 4-5 mils (100-125 microns) can be achieved

Roller

Recommended Typically 3-4 mils (75-100 microns) can be achieved

Thinner

International GTA220 Thinning is not normally required. Consult the local representative for advice during application in extreme conditions. Do not thin more than allowed by local environmental legislation.

Cleaner

International GTA822 (or GTA415)

Work Stoppages

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 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.
Interseal ® 670HS
Surface Tolerant Epoxy

PRODUCT
CHARACTERISTICS

For water immersion service, surface preparation to a minimum of Sa2.5 (ISO 8501-1:2007) or SSPC-SP10 followed by application of multi-coats of Interseal 670HS to a total minimum dry film thickness of 10 mils (250 microns) is required. Colors derived from chromascan bases as the first coat of a specification for immersion service is not recommended.

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. If salt water is used in the wet blast process the resulting surface must be thoroughly washed with fresh water before application of Interseal 670HS. With freshly blasted surfaces a slight degree of flash rusting is allowable, and is preferable to the surface being too wet. Puddles, ponding and accumulations of water must be removed.

Interseal 670HS may be applied to suitably sealed or primed concrete; contact International Protective Coatings for further advice on specification and primers.

Interseal 670HS is suitable for overcoating intact, aged alkyd, epoxy and polyurethane systems. However, this product is not recommended where thermoplastic coatings such as chlorinated rubbers and vinyls have previously been used. Please consult International Protective Coatings for alternative recommendations.

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

Level of sheen and surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

In common with all epoxies Interseal 670HS will chalk and discolor on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Premature exposure to ponding water will cause a color change, especially in dark colors.

Interseal 670HS can be used as a non-skid deck system by modification with addition of GMA132 (crushed flint) aggregate. Application should then be to a suitably primed surface. Typical thicknesses will be between 20-40 mils (500-1,000 microns). Preferred application is by a suitable large tip hopper gun (e.g. Sagola 429 or Air texture gun fitted with a 5-10 mm nozzle). Trowel or roller can be used for small areas. Alternatively, a broadcast method of application can be used. Consult International Protective Coatings for further details.

Low Temperature Curing

A winter grade curing agent is also available to enable more rapid cure at temperatures less than 50°F (10°C), however this curing agent will give an initial shade variation and more rapid discoloration on weathering.

Interseal 670HS is capable of curing at temperatures below 32°F (0°C). However, this product should not be applied at temperatures below 32°F (0°C) where there is a possibility of ice formation on the substrate.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Touch Dry</th>
<th>Hard Dry</th>
<th>Overcoating Interval with Self</th>
<th>Overcoating Interval with recommended topcoats</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max†</td>
</tr>
<tr>
<td>23°F (-5°C)</td>
<td>24 hours</td>
<td>72 hours</td>
<td>72 hours 12 weeks Extended*</td>
<td>72 hours 84 hours 12 weeks</td>
</tr>
<tr>
<td>32°F (0°C)</td>
<td>16 hours</td>
<td>56 hours</td>
<td>56 hours 10 weeks Extended*</td>
<td>42 hours 54 hours 10 weeks</td>
</tr>
<tr>
<td>41°F (5°C)</td>
<td>9 hours</td>
<td>36 hours</td>
<td>36 hours 8 weeks Extended*</td>
<td>36 hours 48 hours 8 weeks</td>
</tr>
<tr>
<td>50°F (10°C)</td>
<td>5 hours</td>
<td>24 hours</td>
<td>24 hours 6 weeks Extended*</td>
<td>16 hours 24 hours 6 weeks</td>
</tr>
</tbody>
</table>

● Refers to situations where immersion is likely to occur
† Refer to atmospheric service only
* See International Protective Coatings Definitions & Abbreviations

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 32°F (0°C).

Note: VOC values quoted are based on maximum possible for the product taking into account variations due to color differences 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

Interseal 670HS will normally be applied to correctly prepared steel substrates. However, it can be used over suitably primed surfaces. Suitable primers are:

- Intercure 200
- Interplus 256
- Intergard 269
- Interplus 356
- Intergard 740
- Interfine 979
- Interthane 870

Where a cosmetically acceptable topcoat is required the following products are recommended:

- Intercryl 530
- Interfine 878
- Interthane 629HS
- Interfine 629HS
- Interfine 979

Other suitable primers/topcoats are available. Consult International Protective Coatings.
Interseal ® 670HS
Surface Tolerant Epoxy

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.

Shipment Weight (Typical)

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>Part A</th>
<th>Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 litre</td>
<td>17 litre</td>
<td>20 litre</td>
</tr>
<tr>
<td>5 US gal</td>
<td>4.25 US Gal</td>
<td>5 US Gal</td>
</tr>
</tbody>
</table>

For availability of other pack sizes, contact International Protective Coatings

STORAGE

Shelf Life 12 months minimum at 77°F (25°C). Subject to re-inspection thereafter.

Store in dry, shaded conditions away from sources of heat and ignition.

Protect from frost.

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 losses 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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