

## Surface Tolerant Epoxy

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.

NSF Certification is for tanks greater than 100 gallons (378.5 litres).



Certified to NSF/ANSI Standard 61

PRACTICAL
<b>INFORMATION FOR</b>
INTERSEAL 670HS

Color	Available in a wide range of colors including Aluminum
Gloss Level	Semi-gloss (Aluminum is eggshell)
Volume Solids	82% ± 3% (depends on color)
Typical Thickness	4-10 mils (100-250 microns) dry equivalent to 4.9-12.2 mils (122-305 microns) wet
Theoretical Coverage	263 sq.ft/US gallon at 5 mils d.f.t and stated volume solids 6.56 m²/litre at 125 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Air spray, Brush, Roller
Drying Time 🔺	

			Overcoating Interval Interseal 670HS with Self				al with ocoats	
Temperature	Touch Dry	Hard Dry	Min	Max ●	Max †	Min	Max ●	Max †#
50°F (10°C)	8 hours	32 hours	32 hours	6 weeks	Extended*	20 hours	21 days	12 weeks
59°F (15°C)	7 hours	26 hours	26 hours	4 weeks	Extended*	14 hours	14 days	8 weeks
77°F (25°C)	5 hours	18 hours	18 hours	14 days	Extended*	10 hours	7 days	4 weeks
104°F (40°C)	2 hours	6 hours	6 hours	7 days	Extended*	4 hours	3 days	2 weeks

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

### **Protective Coatings**

**Worldwide Product** 

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# AkzoNobel



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 SURFACE
 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.

<b>APPLICATION</b>	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 we life specified. (1) Agitate Base (Part A) with a power agitator.					
		(2) Comb					
	Mix Ratio	5.67 parts : 1.00	) part by volume	e			
	Working Pot Life	50°F (10°C)	59°F (15°C)	77°F (25°C)	104°F (40°C)		
		5 hours	3 hours	2 hours	1 hour		
	Airless Spray	Recommended		23 thou (0.45-0.5 iid pressure at sp	8 mm) ray tip not less than 2,500 p.s.i. (176 kg/cm²)		
	Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MB0 704 or 765 E	C or JGA		
	Brush	Recommended	Typically 4-5 n	pically 4-5 mils (100-125 microns) can be achieved			
	Roller	Recommended	Recommended Typically 3-4 mils (75-100 microns) can be achieved				
	Thinner	(or GTA415 for	International GTA220May be necessary at low temperatures. Do n(or GTA415 formore than allowed by local environmental legNSF-approved schemes)				
	Cleaner	International GT (or GTA415)	International GTA822 (or GTA415)				
	Work Stoppages	equipment with	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	practice to perio Frequency of cle	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.					

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### 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.

Interseal 670HS is certified to NSF/ANSI Standard 61 (selected colors only). Consult International Protective Coatings for further details. Certification is for tanks greater than 100 gallons (378.5 litres), for pipes which are 6 inches (15 cm) in diameter or greater and for valves which are 2 inches (5 cm) in diameter or greater.

### 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  $32^{\circ}F$  (0°C). However, this product should not be applied at temperatures below  $32^{\circ}F$  (0°C) where there is a possibility of ice formation on the substrate.

			Overcoating Interval Interseal 670HS with Self			Overcoating Interval with recommended topcoats		
Temperature	Touch Dry	Hard Dry	Min	Max ●	Max †	Min	Max ●	Max †
23°F (-5°C)	24 hours	72 hours	72 hours	12 weeks	Extended*	72 hours	84 hours	12 weeks
32°F (0°C)	16 hours	56 hours	56 hours	10 weeks	Extended*	42 hours	54 hours	10 weeks
41ºF (5ºC)	9 hours	36 hours	36 hours	8 weeks	Extended*	36 hours	48 hours	8 weeks
50°F (10°C)	5 hours	24 hours	24 hours	6 weeks	Extended*	16 hours	24 hours	6 weeks

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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  $32^{\circ}F(0^{\circ}C)$ .

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
   Interzinc 315
  - Interplus 256 Intergard 269
    - s 250 Intelgalu 209

Interplus 356

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

- Intercryl 530 Interfine 878 Intergard 740
- Interthane 990 Interfine 629HS Interfine 979
- Interthane 870

Other suitable primers/topcoats are available. Consult International Protective Coatings.



### Surface Tolerant Epoxy

ADDITIONA INFORMATI		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 & A	bbreviations							
		Surface Preparation								
		Paint Application								
		Theoretical & Practical Coverage								
		Individual copies of these information sections are available upon request.								
SAFETY PRECAUTIC	SAFETY PRECAUTIONS This product is intended for use only by professional applicators in industrial situations in accordance with the adv on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the 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 will require the use of approp	0 1		· · · ·					
		If in doubt regarding the suita	bility of use of this produ	ict, consult Internatior	nal Protective Coatings for	further advice.				
PACK	SIZE	Unit Size	Part	Δ	Part	B				
1 Aon	UILL	Offic Of20	Vol	Pack	Vol	Pack				
		20 litre	17 litre	20 litre	3 litre	3.7 litre				
		5 US gal	4.25 US Gal	5 US Gal	0.75 US Gal	1 US gal				
		For availability of othe	r pack sizes, contact In	ternational Protectiv	e Coatings					
SHIPP	VING WEIGHT	- Unit Size	•	Part A		Part B				
(TYPIC		20 litre				3.5 kg				
•		5 US gal		64.9 lb		6.8 lb				
STOR	AGE	Shelf Life 12 months minimum at 77°F (25°C). Subject to re-inspection thereafter.								

### 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.

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

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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