Surface Tolerant Epoxy



Protective Coatings

				1 1				I		
PRODUCT Description	A low VOC, maintenanc	two con e coating	1ponent hi g.	gh build,	high soli	ds surface	tolerant e	epoxy		
	Available in barrier prot	an alum ection.	iinium pigi	mented ve	ersion to	provide ad	ditional a	anti-corr	osive	
NTENDED USES	For applicati abrasive blas	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 exc paper plants immersion s	cellent a s, bridge service.	nti-corrosiv s and offsh	ve protecti lore envire	on in in onments	dustrial, co in both ati	astal stru nospheri	ctures, p c exposi	oulp and ure and	
	NSF		Certified to ANSI/NSF 61. NSF C is for tanks than 100 g (378½ litre	Standard ertification s greater gallons es).						
RACTICAL	Colour		Range	;						
FORMATION FOR	Gloss Level	Gloss Level		gloss (Alu	minium	is eggshell)				
TERSEAL 670HS	Volume Soli	Volume Solids		$82\% \pm 3\%$ (depends on colour)						
	Typical Thio	Typical Thickness		100-200 microns (4-8 mils) dry equivalent to 122-244 microns (4.9-9.8 mils) wet						
	Theoretical	Theoretical Coverage			6.56 m ² /litre at 125 microns d.f.t and stated volume solids 263 sq.ft/US gallon at 5 mils d.f.t and stated volume solids					
	Practical Coverage Allow appropriate loss factors									
	Method of Application Airless spray, Air spray, Brush, Roller									
	Drying Time	e 🔺		(Overcoati Intersea with	ing Interval al 670HS Self	Overcoa rec	ating Inte ommene topcoats	erval with led	
	Temperature	Touch Dry	Hard Dry	Min	<i>Max</i> ●	Max †	Min	<i>Max</i> ●	Max†#	
	10°C (50°F)	8 hours	32 hours	32 hours	6 weeks	Extended*	20 hours	21 days	12 weeks	
	$15^{\circ}C$ (59°F)	7 hours	26 hours	26 hours	4 weeks	Extended*	14 hours	14 days	8 weeks	
	$25^{\circ}C$ (77°F)	5 hours	18 hours	18 hours	14 days	Extended*	10 hours	7 days	4 weeks	
	40°C (104°F)	2 hours	6 hours	6 hours	7 days	Extended*	4 hours	3 days	2 weeks	
	 ▲ For curin Product 0 • Refers to † Refer to a * See Inter # Maximum Consult I 	g at low Characte situation atmosph national n overco nternation	temperatu ristics for o is where in eric service Protective ating inter onal Protect	res, an alt letails. nmersion e only. Coatings vals are sh ctive Coati	ernative is likely Definitio orter wh ings for f	curing age to occur. ons & Abbr nen using p further det:	nt is avail eviations. olysiloxai ails.	lable. Se ne topco	e oats.	
LEGULATORY DATA	Flash Point		Base (36°C	(Part A) (97°F)	C/ 56	['] A (Part B) °C (133°F)	M 33°0	lixed C (91°F))	
	Product We	ight	1.6 kg	<mark>;/1 (13.3 l</mark>]	o/gal)					
12-11	VOC		175 g	/1	ر بر	UK - PG6/9	23(92). A1	opendix	3	
		5	9.00.1	/ mal (94	$0 \alpha^{(1)}$		Mothed 9	с г элона Эл	-	
1-1-1	ЕСО	ТЕСН	2.00 1	07 gai (24	∪ g/ I)	05A - EI A	withing 2	-1		

Ecotech is an initiative by International Protective Coatings a world leader in coating technology to promote the use of environmentally sensitive products across the globe.

Surface Tolerant Epoxy

The performance of this product will depend upon the degree of surface preparation. The SURFACE surface to be coated should be clean, dry and free from contamination. Prior to paint PREPARATION application all surfaces should be assessed and treated in accordance with ISO 8504:1992. 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 Sa2½ (ISO 8501-1:1988) or SSPC-SP10. However, for atmospheric exposure best performance will be achieved when Interseal 670HS is applied to surfaces prepared to a minimum of Sa2¹/₂ (ISO 8501-1:1988) 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. Hand or Power Tool Preparation Hand or power tool clean to a minimum St2 (ISO 8501-1:1988) or SSPC-SP2. Note, all scale must be removed and areas which cannot be prepared adequately by chipping

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 8501-1:1988) 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 Sa2½ (ISO 8501-1:1988) or SSPC-SP6 which have flash rusted to no worse than Grade HB2½M (refer to International Hydroblasting Standards) or Grade SB2½M (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 u 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 j	5.67 parts : 1.00 part by volume						
	Working Pot Life	10°C (50°F) 5 hours	15°C (59 3 hour	9°F) 25° rs 2	°C (77°F) ? hours	40°C (104°F) 1 hour			
	Airless Spray	Recommended	-	Tip range (Total outpo less than 1	0.45-0.58 mm ut fluid press 76 kg/cm ² (2	(18-23 thou) ure at spray tip not ,500 p.s.i.)			
	Air Spray (Pressure Pot)	Recommended		Gun Air Cap Fluid Tip	DeVilbiss M 704 or 765 E	BC or JGA			
	Brush	Recommended		Typically 1 achieved	00-125 micro	ns (4-5 mils) can be			
	Roller	Recommended		Typically 7. achieved	5-100 micron	s (3-4 mils) can be			
	Thinner	International GTA (or GTA415)	4220	May be nee Product Ch Do not this environme	cessary at low naracteristics. n more than a ntal legislatio	temperatures, see allowed by local m.			
	Cleaner	International GT (or GTA415)	A822						
	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 GTA8 good working practice to periodically flush out spray equipment du the course of the working day. Frequency of cleaning will depend u amount sprayed, temperature and elapsed time, including any delay All surplus materials and empty containers should be disposed of in							
		accordance with	appropr	Tate regiona	u regulations	/ legislation.			

Surface Tolerant Epoxy

PRODUCT **CHARACTERISTICS** In order to achieve optimum performance on hand prepared steel, the aluminium pigmented version should be applied as a primer coat by brush to ensure thorough wetting out of the substrate by Interseal 670HS.

For water immersion service, surface preparation to a minimum of Sa2¹/₂ (ISO 8501-1:1988) or SSPC-SP10 followed by application of multi-coats of Interseal 670HS to a total minimum dry film thickness of 250 microns (10 mils) is required.

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 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 $3^{\circ}C$ ($5^{\circ}F$) 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 discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Premature exposure to ponding water will cause a colour change, especially in dark colours.

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 500-1,000 microns (20-40 mils). 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 ANSI/NSF Standard 61 (selected colours only). Consult International Protective Coatings for further details. Certification is for tanks greater than 100 gallons (3781/2 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 10°C (50°F), 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 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.

		(Overcoating Interval Interseal 670HS with Self		Overcoating Interval with recommended topcoats			
Temperature	Touch Dry	Hard Dry	Min	<i>Max</i> ●	Max 🕇	Min	Max•	Max 🕇
- 5°C (23°F)	24 hours	72 hours	72 hours	12 weeks	Extended*	72 hours	8 weeks	12 weeks
0°C (32°F)	16 hours	56 hours	56 hours	10 weeks	Extended*	42 hours	6 weeks	10 weeks
5°C (41°F)	9 hours	36 hours	36 hours	8 weeks	Extended*	36 hours	28 days	8 weeks
10°C (50°F)	5 hours	24 hours	24 hours	6 weeks	Extended*	16 hours	21 days	6 weeks
• Defers to si	tuations wh	oro immo	cion is like	alv to occu	112			

efers to situations where immersion is likely to occur.

Refer to atmospheric service only.
 * See International P

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 $0^{\circ}C$ (32°F).

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 356
Intergard 269	Interzinc 315
Interplus 256	

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

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

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

Surface Tolerant Epoxy

Additional Information	Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following sections of the International Protective Coatings data manual:					
	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	20 litre unit	Interseal 670HS Base Interseal 670HS Curing Agent	17 litres in a 20 litre container 3 litres in a 3.7 litre container			
	5 gallon unit	Interseal 670HS Base Interseal 670HS Curing Agent	4.25 gallons in a 5 gallon container 0.75 gallons in a 1 gallon container			
	For availability of	other pack sizes contact Internat	tional Protective Coatings			
Shipping Weight	U.N. Shipping No	No. 1263				
	20 litre unit	30.8 kg (67.9 lb) Base (Part A) 3.5 kg (7.6 lb) Curing Agent (Part B)				
	5 gallon unit	29.4 kg (64.9 lb) Base (Part A) 3.	08 kg (6.8 lb) Curing Agent (Part B)			
STORAGE	Shelf Life	12 months minimum at 25°C (thereafter. Store in dry, shaded heat and ignition. Protect from	(77°F). Subject to re-inspection d conditions away from sources of n frost.			

Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms \mathfrak{S} Conditions of Sale are contained in International's Terms \mathfrak{S} Conditions of Sale, a copy of which can be obtained on request. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or 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 whatsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 01/03/2005

Copyright © International Paint Ltd. ***** and International are trademarks. International Protective Coatings

Morldvide Amilebility

Worldwide Avai	lability					
World Centre	Asia Region	Australasia Region	Europe Region	Middle East Region	North America Region	South America Region
P.O Box 20980	3 Neythal Road	115 Hyde Road	P.O Box 20980	PO Box 37	6001 Antoine Drive	Av Paiva 999,
Oriel House	Jurong Town	Yeronga	Oriel House	Dammam 31411	Houston	Neves, Sao Gonçalo,
16 Connaught Place	Singapore 628570	Brisbane	16 Connaught Place	Saudi Arabia	Texas 77091	Rio de Janeiro
London, W2 2ZB		Queensland	London, W2 2ZB			Brazil
England		Australia	England			
Tel: (44) 20 7479 6000	Tel: (65) 663 3066	Tel: (61) 7 3892 8888	Tel: (44) 20 7479 6000	Tel: (966) 3 812 1044	Tel: (1) 713 682 1711	Tel: (55) 21 624 7100
Fax: (44) 20 7479 6500	Fax: (65) 266 5287	Fax: (61) 7 3892 4287 H&S (61) 1800 807 001	Fax: (44) 20 7479 6500	Fax: (966) 3 812 1169	Fax: (1) 713 684 1514	Fax: (55) 21 624 7123

E N G 0 3 0 5

Local Office:

Tel: 0191 469 6111 Fax: 0191 495 0676