Glass Flake Epoxy

X International. Protective Coatings



Product Description	A high solids, low VOC, high build epoxy primer/intermediate or finish coat, reinforced with chemically resistant high aspect ratio glass flake for enhanced durability and corrosion resistance.					
Intended Uses	For the protection of steelwork in all corrosive environments including splashzone areas on offshore structures, underdeck, decks and above water areas, pilings, pulp and paper mills, bridges and chemical plants.					
	To provide excellent long term, anti-corrosive and anti-abrasion protection in both new construction and maintenance situations.					
	As part of a non-slip de	ck system in co	onjunction with	appropriate aggr	regate.	
Practical	Colour	Limited rang	e			
Information for	Gloss Level	Semi-gloss				
Interzone 505	Volume Solids	90%				
	Typical Thickness	300-500 microns (12-20 mils) dry equivalent to 333-555 microns (13.3-22.2 mils) wet				
	Theoretical Coverage	2.25 m ² /litre at 400 microns d.f.t and stated volume solids 90 sq.ft/US gallon at 16 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				; Interval with ded topcoats	
	Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
	5°C (41°F)	20 hours	28 hours	28 hours	7 days	
	15°C (59°F)	6 hours	14 hours	14 hours	5 days	
				0.1		
	25°C (77°F)	3 hours	6 hours	6 hours	4 days	

See Product Characteristics for details.

Regulatory Data	Flash Point	Base (Part A) 54°C (129°F)	C/A (Part B) 33°C (91°F)	Mixed 35°C (95°F)
	Product Weight	1.3 kg/l (10.7 lb/	⁄g)	
	VOC	157 g/l	UK - PG6/2	3(92), Appendix 3
<u> </u>		1.71 lb/gal (205	g/l) USA - EPA	Method 24
	E C O T E C H			

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.

Glass Flake Epoxy

Surface

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992. Preparation

> 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.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2 (ISO 8501-1:1988) or SSPC-SP6. If oxidation has occurred between blasting and application of Interzone 505, the surface should be reblasted to the specified visual standard.

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 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 Protections Protective Coatings.

Application	Mixing	complete unit in the pr	two containers as a unit. Always mix a oportions supplied. Once the unit has used within the working pot life specified.
		(2) Combine entire	art A) with a power agitator. contents of Curing Agent (Part B) with Base x thoroughly with power agitator.
	Mix Ratio	1.5 parts : 1.0 part by vo	blume
	Working Pot Life	5°C (41°F) 15°C 2½ hours 90 mi	(59°F) 25°C (77°F) 40°C (104°F)▲ nutes 60 minutes 30 minutes
			(104°F) requires the use of an alternative roduct Characteristics.
	Airless Spray	Recommended	 Tip range 0.53-0.79 mm (21-31 thou) Total output fluid pressure at spray tip not less than 211 kg/cm² (3,000 p.s.i.)
			See Product Characteristics section for further details.
	Air Spray (Pressure Pot)	Recommended	Gun DeVilbiss MBC or JGA Air Cap 62 Fluid Tip AC
	Brush	Suitable - Small areas only	Typically 75-100 microns (3-4 mils) can be achieved
	Roller	Suitable - Small areas only	Typically 75-100 microns (3-4 mils) can be achieved
	Thinner	International GTA220 (or GTA415)	Do not thin more than allowed by local environmental legislation.
	Cleaner	International GTA822 (or GTA415)	
	Work Stoppages	o remain in hoses, gun or spray equipment. uipment with International GTA822. Once units of they should not be resealed and it is advised that ges work recommences with freshly mixed units.	
	Clean Up	is good working practic the course of the worki	mediately after use with International GTA822. It e to periodically flush out spray equipment during ng day. Frequency of cleaning will depend upon erature and elapsed time, including any delays.
			d empty containers should be disposed of in priate regional regulations/legislation.

lass Flake Epoxy

Product
Characteristics

Interzone 505 is suitable for both water immersion and exterior exposure. For water immersion a minimum system thickness of 450 microns (18 mils) is required to achieve long term anti-corrosive performance. For general exterior exposure in aggressive conditions a minimum system thickness of 350 microns (14 mils) is required.

If salt water is used in the wet blast process the resulting surface must be thoroughly washed with fresh water before application of Interzone 505. 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.

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.

For airless spray application best results will be achieved by using 9 mm (3/8") lines with no whip ends. The pump should be a minimum of 45:1 ratio. Filters should be removed from the spray machine and gun, and fluid lines kept as short as possible.

Higher ratio pumps are recommended when long fluid lines are used.

When applying Interzone 505 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

In special cases where overcoating is required and curing has been at low temperatures and high humidities, ensure no amine bloom is present prior to application of subsequent topcoats.

This product will not cure adequately below 5°C (41°F). For maximum performance ambient curing temperatures should be above 10°C (50°F). Surface temperature must always be a minimum of 3°C (5°F) above dew point.

When applying Interzone 505 in confined spaces ensure adequate ventilation.

Condensation occurring during or immediately after application may result in a matt finish and an inferior film. Premature exposure to ponding water will cause a colour change, especially in dark colours.

Films of Interzone 505 cured at an ambient temperature of 25°C (77°F) or greater, will be suitable for immersion in water after 24 hours.

Curing is retarded underwater. Some colour change may be observed.

Elevated Temperature Curing▲

An alternative curing agent is available for applications at temperatures greater than 25°C (77°F).

			Overcoating Interval with recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
40°C (104°F)	2 hours	5 hours	5 hours	2 Days	

Interchanging standard and elevated temperature curing agents during application to a specific structure will give rise to an observable colour variations due to a difference in the yellowing/discolouration process common to all epoxies on exposure to UV light.

In common with all epoxies Interzone 505 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.

Interzone 505 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 details.

Interzone 505 is compatible with sacrificial and impressed current cathodic protection systems.

Systems Compatibility Interzone 505 can be applied directly to blasted steel but can also be used over the following primers for underwater systems:

Intergard 269

Interline 982

When used in aggressive exterior exposure environments the following primers are recommended for Interzone 505:

Interthane 990

Intergard 740

The following topcoats are recommended for Interzone 505:

Interfine 629 HS

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

* See relevant product data sheets for details.

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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 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	ns 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 D 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	17.5 litre unit	Interzone 505 Base Interzone 505 Curing Agent 10.5 litres in a 20 litre co 7.0 litres in a 10 litre co	
	5 gallon unit	Interzone 505 Base 3 gallons in a 5 gallon Interzone 505 Curing Agent 2 gallons in a 2 gallon	container container
	For availability of	other pack sizes contact International Protective Coatin	gs
Shipping Weight	U.N. Shipping No	o. 1263	
	20 litre unit	18.5 kg (40.8 lb) Base (Part A) 9.9 kg (21.8 lb) Curing Age	nt (Part B)
	5 gallon unit	15.4 kg (33.8 lb) Base (Part A) 8.3 kg (18.2 lb) Curing Age	nt (Part B)
Storage	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-insthereafter. Store in dry, shaded conditions away from of heat and ignition.	spection sources

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 & Conditions of Sale are contained in International's Terms & 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 uses 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: 20/06/2002

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International Protective Coatings Worldwide Availability

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	Fax: (44) 20 7479 6500	Fax: (966) 3 812 1169	Fax: (1) 713 684 1514	Fax: (55) 21 624 7123	
		H&S (61) 1800 807 001					

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