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PRODUCT DESCRIPTION	A two component, low VOC, high solids, fast curing epoxy primer and intermediate containing zinc
BEGORIA HOI	phosphate anti-corrosive pigmentation.

Suitable for overcoating within 2 hours under common climatic conditions. Early handling properties make this an ideal primer for speeding up production and throughput.

INTENDED USES For u

For use on a range of industrial facilities and infrastructure assets where film build and fast throughput are priorities.

This primer, in combination with approved topcoats, offers optimised anticorrosive protection in various atmospheric environments.

PRACTICAL INFORMATION FOR INTERGARD 251HS

Colour	Red, Grey, Buff
Gloss Level	Matt
Volume Solids	75% ± 2%
Typical Thickness	75-200 microns (3-8 mils) dry equivalent to 100-267 microns (4-10.7 mils) wet
Theoretical Coverage	10 m ² /litre at 75 microns d.f.t and stated volume solids 401 sq.ft/US gallon at 3 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

			Overcoating Interval with recommended topcoats	
Temperature	Touch Dry	Hard Dry	Minimum	Maximum
5°C (41°F)	2 hours	5.5 hours	4 hours	12 months
15°C (59°F)	60 minutes	3.5 hours	3 hours	12 months
25°C (77°F)	30 minutes	2.25 hours	2 hours	12 months
40°C (104°F)	15 minutes	60 minutes	60 minutes	12 months

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

REGULATORY DATA	Flash Point (Typical)	Part A 31°C (88°F); Part B 30°C (86°F); Mixed 31°C (88°F)		
	Product Weight VOC	1.59 kg/l (13.3 lb/gal) 2.02 lb/gal (243 g/lt) 157 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)	

See Product Characteristics section for further details

Protective Coatings

AkzoNobel

Intergard_® 251HS



Epoxy SURFACE PREPARATION

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

Steel

Abrasive blast clean to a minimum of Sa2¹/₂ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Intergard 251HS the surface should be re-blasted 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 40-75 microns (1.5-3.0 mils) is recommended.

Shop Primed Steelwork

Weld seams and damaged areas should be abrasive blast cleaned to a minimum Sa2¹/₂ standard (ISO 8501-1:2007) or SSPC SP6. Where this is not practical, preparation to SSPC SP11 is acceptable.

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. 3 part(s) : 1 part(s) by volume 			
	Mix Ratio				
	Working Pot Life	5°C (41°F) 15°C (5 90 minutes 60 minu	, ,	, , ,	
	Airless Spray	rless Spray Recommended Tip Range 0.43-0.53 mm (17-21 the Total output fluid pressure at spray than 155 kg/cm ² (2204 p.s.i.)		l pressure at spray tip not less	
	Air Spray (Pressure Pot)	Suitable	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
	Brush	ush Suitable Recommended for small areas a multiple coats will be necessary t required dry film thickness.		Il be necessary to achieve the	
	Roller	Suitable	Recommended for small areas and repairs, multiple coats will be necessary to achieve th required dry film thickness.		
	Thinner International GTA220 Do not thin more that environmental legisla		than allowed by local gislation		
	Cleaner	International GTA822			
	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 clean equipment during the course of the working day. Frequency of cleaning will depend upon amount used, temperature and elapsed time, including any delays.			
		All surplus materials an accordance with approp		s should be disposed of in lations/legislation.	

Intergard_® 251HS



Epoxy PRODUCT CHARACTERISTICS

Intergard 251HS is preferred for use with systems for chemical environments where zinc based materials can be subject to attack in both acidic and alkaline conditions.

Apply in good climatic conditions. The temperature of the surface to be coated must be at least 3°C (5°F) above the dew point.

Over-application of Intergard 251HS will extend both the minimum overcoating periods and handling times.

When applying Intergard 251HS by brush or roller, it may be necessary to apply multiple coats to achieve the required film build.

In common with all epoxies, Intergard 251HS will chalk and discolour on exterior exposure. Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Intergard 251HS is not designed for continuous water immersion.

An alternative curing agent to improve application properties in tropical climates is also available.

The following drying times and overcoating intervals apply when the tropical climate curing agent is used;

Temperature	Touch Dry	Hard Dry		rcoating Interval with ommended topcoats um Maximum	
5°C (41°F)	5 hours	16 hours	16 hours	12 months	
15°C (59°F)	4 hours	6 hours	6 hours	12 months	
25°C (77°F)	90 minutes	4 hours	4 hours	12 months	
40°C (104°F)	45 minutes	2 hours	2 hours	12 months	
Pot Life:					
5°C (41°F)	15°C (59°F)	25°C (77°F)	40°C (104°F)		
2 hours	2 hours	90 minutes	60 minutes		

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 colour 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 Intergard 251HS is normally applied directly to steel, however, it can be applied over the following primers:

Interzinc 22

Interzinc 52

Recommended topcoats are:

Chartek 1709 Interchar 1190 Interfine 979 Intergard 740 Interthane 870UHS* Interzone 954 Chartek 7 Interchar 212 Intergard 345 Interseal 670HS Interthane 990 Chartek 8E Interfine 878 Intergard 475HS Interthane 870 Interthane 990V*

For other suitable topcoats, consult International Protective Coatings.

*available only in selected countries.





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 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 International Protective Coatings for further advice.

PACK SIZE	Unit Size 20 litre 5 US gal 1 US gal	Part A Vol Pack 15 litre 20 litre 3 US gal 5 US gal 0.75 US 1 US gal gal	Part B Vol Pack 5 litre 5 litre 1 US gal 1 US gal 0.25 US 1 US quart gal International Protective Coatings.	
SHIPPING WEIGHT (TYPICAL)	Unit Size 20 litre 5 US gal 1 US gal	Part A 26.8 kg 54.1 lb 12 lb	Part B 7.1 kg 13 lb 3.5 lb	
STORAGE	Shelf Life		[°] F). Subject to re-inspection therea anditions away from sources of hea	

Important Note

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 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 use of 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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