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PRODUCT DESCRIPTION

A two component epoxy anti-corrosive primer.

INTENDED USES

PRACTICAL INFORMATION FOR INTERGARD 291 For use on properly prepared surfaces in both new construction situations and as an industrial maintenance primer for a wide range of anti-corrosive coatings systems for use in the offshore, petrochemical, chemical, pulp and paper and bridge industries.

The fast drying and handling properties, together with extended overcoatability, make this an excellent primer for factory application prior to full system application on site. Intergard 291 provides good abrasion resistance which minimises mechanical damage in transit between the factory and site.

XInternational

Colour	Buff, Grey, Red Oxide, White
Gloss Level	Matt
Volume Solids	53%
Typical Thickness	50-75 microns (2-3 mils) dry equivalent to 94-142 microns (3.8-5.7 mils) wet
Theoretical Coverage	7.10 m ² /litre at 75 microns d.f.t and stated volume solids 283 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
	10°C (50°F)	5 hours	24 hours	24 hours	12 months ¹
	15°C (59°F)	3 hours	12 hours	16 hours	12 months ¹
	25°C (77°F)	1 hour	4 hours	12 hours	12 months ¹
	40°C (104°F)	30 minutes	3 hours	8 hours	12 months ¹
	¹ See Product Charact	teristics section for further details			
REGULATORY DATA	Flash Point (Typical)	Part A 23°C (73°F); Part B 23°C (73°F); Mixed 23°C (73°F)			F)
	Product Weight	1.32 kg/l (11.0 lb/g	jal)		
	voc	362 g/kg	EU Solvent Emissions Directive (Council Directive 1999/13/EC)		

See Product Characteristics section for further details

Protective Coatings

AkzoNobel

Intergard_® 291



Epoxy SURFACE PREPARATION

All 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.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Intergard 291, 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.

Shop Primed Steel

Weld seams and damaged areas should be blast cleaned to Sa2 $\frac{1}{2}$ (ISO 8501-1:2007) or SSPC-SP6.

If the shop primer shows extensive or widely scattered breakdown overall sweep blasting may be necessary.

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	4 part(s) : 1 part(s) by volume			
	Working Pot Life	10°C (50°F) 15°C (5 10 hours 8 hours	9°F) 25°C (77°F 6 hours) 40°C (104°F) 2 hours	
	Airless Spray	Recommended Tip Range 0.38-0.53 mm (15-21 tho Total output fluid pressure at spray t than 155 kg/cm ² (2204 p.s.i.)		I pressure at spray tip not less	
	Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
	Brush	Suitable	Typically 40-50 microns (1.6-2.0 mils) can be achieved		
	Roller	SuitableTypically 40-50 microns (1.6-2.0 mils) can achievedInternational GTA220 (or Do not thin more than allowed by local GTA415)environmental legislation		nicrons (1.6-2.0 mils) can be	
	Thinner				
	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 accordance with approp		s should be disposed of in lations/legislation.	

Intergard_® 291



Epoxy PRODUCT CHARACTERISTICS

Intergard 291 is preferred for use with systems for chemical environments where zinc based materials can be subject to attack in both acidic and alkaline conditions.

The maximum overcoating interval will be dependent upon the integrity of the exposed film. A film of 75 microns (3 mils) dry film thickness will normally be overcoatable after 6-12 months exposure (depending upon the corrosivity of the environment) provided it is adequately cleaned and any areas of mechanical damage repaired.

Over-application should be avoided as thick films will not be as good a substrate for topcoat adhesion after ageing as those at the specified thickness. When using as a blast holding primer avoid over-application as thick films may suffer from cohesive film splitting if subsequent coats are also over-applied.

Over-application of Intergard 291 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

When applying Intergard 291 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

This product will not cure adequately below $5^{\circ}C$ ($41^{\circ}F$). For maximum performance ambient curing temperatures should be above $10^{\circ}C$ ($50^{\circ}F$).

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

In common with all epoxies Intergard 291 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Intergard 291 is not designed for continuous water immersion.

Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

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.

SYSTEMS COMPATIBILITY

Intergard 291 is designed for application to correctly prepared steel. However, it is also possible to apply over approved prefabrication primers. Further details of these can be obtained from International Protective Coatings.

The following primers are recommended for Intergard 291:

InterH2O 280 Interzinc 12 (mist coat or tie coat may be required)* Interzinc 22 (mist coat or tie coat may be required)* Interzinc 42 Interzinc 52 Interzinc 315

The following topcoats are recommended for Intergard 291:

Intercryl 530	InterH2O 735
Intercure 420	Intergard 740
Interfine 629HS	Interplus 770
Intergard 291	Interplus 880
InterH2O 401	Interseal 670HS
Intergard 475HS	Interthane 990

Alternative topcoats are also available, consult International Protective Coatings.





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.

PACK SIZE	Unit Size 20 litre	Part A Vol Pack 16 litre 20 litre	Part B Vol Pack 4 litre 5 litre	
	For availability of	other pack sizes, contact	International Protective	Coatings.
SHIPPING WEIGHT	Unit Size	Part A	Part B	
(TYPICAL)	20 litre	24.6 kg	4.2 kg	
STORAGE	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.		

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 for oduct routing to associate and review it carefully. The information contained in this data sheet is liable to modification from time to 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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