Intershield® 300V

International

Epoxy

PRODUCT DESCRIPTION

A light colored, abrasion resistant, aluminum pure epoxy coating giving excellent long term anti-corrosive protection and low temperature application capability.

INTENDED USES

A universal primer which can be applied directly to mechanically prepared shop primer or suitable prepared bare steel. Suitable for use with controlled cathodic protection. For use at New Construction or Maintenance and Repair.

Meets the applicable health effects criteria of NSF/ANSI/CAN 600 according to the requirements of NSF/ANSI/CAN 61.

NSF®

Certified to NSF/ANSI/CAN Standard 61

PRACTICAL INFORMATION FOR INTERSHIELD 300V

Color	Bronze, Aluminum
Gloss Level	Matte
Volume Solids	63% ± 2%
Typical Thickness	6 mils (150 microns) dry equivalent to 9.5 mils (238 microns) wet
Theoretical Coverage	168 sq.ft/US gallon at 6 mils d.f.t and stated volume solids 4.20 m²/liter at 150 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Roller, Brush

Drying Time

			Overcoating interval with self	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
23°F (-5°C)	6 hours	28 hours	30 hours	6 months[1]
41°F (5°C)	4 hours	17 hours	18 hours	6 months[1]
59°F (15°C)	3.5 hours	9 hours	10.5 hours	6 months[1]
77°F (25°C)	3 hours	4 hours	6.5 hours	5 months[1]
104°F (40°C)	30 minutes	1 hour	60 minutes	3 months[1]

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

Where Intershield 300V is to be used in immersion service, shorter overcoating intervals will apply. Please consult International Protective Coatings for further details.

Where Intergard 740, Interthane 990 and Interthane 990HS are to be used as topcoats, a minimum temperature of 41ºF (5ºC) is required to achieve full cure and specified performance.

REGULATORY DATA

Flash Point (Typical)	Part A 106°F (41°C); Part B 79°F (26°C); Mixed 88°F (31°C)	
Product Weight	10.3 lb/gal (1.23 kg/l)	
VOC	2.72 lb/gal (326 g/lt)	EPA Method 24

See Product Characteristics section for further details

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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.

Steel Substrates

Abrasive blast clean to SSPC SP10 or Sa2½ (ISO 8501-1:2007). If oxidation has occurred between blasting and application of Intershield 300V, 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

Intact, approved shop primers must be clean, dry and free from soluble salts and any other surface contaminants. Unapproved shop primers will require complete removal by blast cleaning to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. In some cases sweep blasting to a defined International Paint standard (eg AS2 or AS3) may be 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.

Mix Ratio

1 part(s) : 1 part(s) by volume

Working Pot Life

23°F (-5°C)	41°F (5°C)	59°F (15°C)	77°F (25°C)	104°F (40°C)
6 hours	6 hours	4 hours	2 hours	45 minutes

Airless Spray

Recommended

Tip Range 19-25 thou (0.48-0.64 mm)
Total output fluid pressure at spray tip not less than 3000 psi (211 kg/cm²)

Brush

Suitable - Small areas only

Multiple coats may be required to achieve specified film thickness.

Roller

Suitable - Small areas only

Multiple coats may be required to achieve specified film thickness.

Thinner

Not normally required. If necessary, use International GTA220

Do not thin more than allowed by local environmental legislation

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 or International GTA415. 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 or International GTA415. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature and elapsed time, including any delays.

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PRODUCT CHARACTERISTICS

Intershield 300V should be high pressure water washed and/or solvent washed prior to overcoating, where necessary, to ensure removal of any surface contamination that has accumulated.
Intershield 300V may be applied at substrate temperatures between 23°F and -4°F (-5°C and -20°C) in certain locations worldwide. However, consideration should be given when overcoating at low temperatures as the remainder of the system may require higher temperatures to achieve full cure.

Apply in good weather. The temperature of the surface to be coated must be at least 5°F (3°C) above the dew point. For optimum application properties bring the material to 70-80°F (21-27°C), unless specifically instructed otherwise, prior to mixing and application.

Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the Storage section of this datasheet

As application, environmental and design factors can vary significantly, due care should be exercised in the selection, verification of performance and use of the coating.

When used as part of an approved scheme, this material has the following certification:

- Food Contact - Carriage of Grain (NOHA)
- Tank Coatings - B1 Classification of Ballast Tank Coatings (DNV/Marintek tested)

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. Lower 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 Intershield 300V. 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.

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 color 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

Intershield 300V will normally be applied to correctly prepared steel substrates.

Suitable topcoats are:

Interfine 878	Interfine 979
Intergard 740	Interthane 990
Interthane 990HS	

Information on topcoats is given for guidance only and is subject to regional variation. Consult your International Protective Coatings for specific recommendations.

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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 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 AkzoNobel for further advice.

PACK SIZE

Unit Size	Part A		Part B	
	Vol	Pack	Vol	Pack
5 US gal	2.5 US gal	2.5 US gal	2.5 US gal	5 US gal

For availability of other pack sizes, contact AkzoNobel.

SHIPPING WEIGHT (TYPICAL)

Unit Size	
5 US gal	59.1 lb

STORAGE

Shelf Life	12 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

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.

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