Interprime_® 539



Etch Primer

PRODUCT DESCRIPTION

A single component modified polyvinyl butyral, phosphoric acid etch primer free from zinc chromate.

INTENDED USES

As a pretreatment primer designed to promote adhesion and seal the surface of non-ferrous metals such as aluminium, copper, brass, cadmium, zinc and nickel.

Interprime 539 is particularly suitable for priming galvanised steel surfaces.

PRACTICAL INFORMATION FOR INTERPRIME 539

| Colour | Yellow, Pink |
|-----------------------|--|
| Gloss Level | Matt |
| Volume Solids | 24% |
| Typical Thickness | 10-20 microns (0.4-0.8 mils) dry equivalent to 42-83 microns (1.7-3.3 mils) wet |
| Theoretical Coverage | 16 m ² /litre at 15 microns d.f.t and stated volume solids 642 sq.ft/US gallon at 0.6 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

voc

| | | | Overcoating Interval with recommended topcoats | |
|--------------|------------|------------|---|-----------------------|
| Temperature | Touch Dry | Hard Dry | Minimum | Maximum |
| 5°C (41°F) | 30 minutes | 60 minutes | 2 hours | Extended ¹ |
| 15°C (59°F) | 20 minutes | 45 minutes | 60 minutes | Extended ¹ |
| 25°C (77°F) | 15 minutes | 30 minutes | 60 minutes | Extended ¹ |
| 40°C (104°F) | 10 minutes | 20 minutes | 60 minutes | Extended ¹ |

¹ See International Protective Coatings Definitions and Abbreviations Overcoating is dependent upon environmental conditions. See product characteristics for further advice.

REGULATORY DATA

Flash Point (Typical)28°C (82°F)Product Weight1.06 kg/l (8.8 lb/gal)

EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)

See Product Characteristics section for further details

701 g/kg

6.20 lb/gal (744 g/lt)

Protective Coatings

AkzoNobel

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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.

The preferred method of treating non-ferrous surfaces prior to application of International Protective Coating systems is to brush blast to Sa1 (ISO 8501-1:2007) or SSPC-SP7 or abrade using coarse emery paper following treatment as described above. When blast cleaning is employed, a low air pressure should be used with a fine grade of abrasive (80 mesh) and the nozzle held 1 metre from the surface. Interprime 539 should only be used when this is not possible.

Non-Ferrous Surfaces

Ensure surface is clean, dry and free from metal corrosion products.

When substrate is aluminium or light alloy, the surface should be solvent cleaned according to SSPC-SP1 and then either etched chemically, or physically by light blast cleaning. It is important to follow application of Interprime 539 with a paint system appropriate to the painting of aluminium.

Galvanised Steel

If the surface has not been subjected to hot phosphating before delivery to site, degrease to SSPC-SP1 and remove any white zinc corrosion products by hand abrasion cleaning.

| APPLICATION | Mixing | This material is a one component coating and should always be mixed thoroughly with a power agitator before application. | | |
|-------------|-----------------------------|--|--|---|
| | Mix Ratio | Not applicable | | |
| | Airless Spray | Recommended | | 0.38 mm (10-15 thou) I pressure at spray tip not less (1593 p.s.i.) |
| | Air Spray (Pressure Pot) | Suitable | Gun Air Cap Fluid Tip | DeVilbiss MBC or JGA 704 or 765 E |
| | Air Spray (Conventional) | Recommended | Use suitable pro | prietary equipment |
| | Brush | Suitable | Care should be t | taken to avoid over-application. |
| | Roller | Suitable | | |
| | Thinner | International GTA220 | See Product Cha | aracteristics |
| | Cleaner | International GTA220 | | |
| | Work Stoppages | Do not allow material to Thoroughly flush all equ | | |
| | Clean Up | good working practice to | periodically flush ay. Frequency of c | with International GTA220. It is out spray equipment during the leaning will depend upon amount acluding any delays. |
| | | All surplus materials and accordance with approp | | s should be disposed of in lations/legislation. |

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PRODUCT CHARACTERISTICS

Care must be taken to ensure the surface to be treated is fully degreased, otherwise good adhesion of subsequent topcoats will not be achieved.

When applying Interprime 539 via air spray techniques, up to 10% addition of recommended thinner may be added to aid coating application and penetration.

When applying Interprime 539 via airless spray techniques, up to 5% addition of recommended thinner may be added to aid coating application and penetration.

When applying Interprime 539 in confined spaces ensure adequate ventilation.

Exposure to unacceptably low temperatures and/or high humidities during or immediately after application may result in incomplete cure and surface contamination that could jeopardise subsequent intercoat adhesion.

Dew or rain on this product while uncured may cause surface blush or browning and may impair its cure and adhesion of subsequent coats.

Do not apply when relative humidity exceeds 90% or when condensation is likely to occur.

Excessive film thickness may lead to splitting of the film when overcoated with high build systems.

Over-application of topcoating systems containing strong solvent blends can cause softening of Interprime 539. This can cause subsequent loss of adhesion as the topcoat dries/cures, and should be avoided.

Whilst Interprime 539 is capable of achieving extended recoat periods, long term exterior exposure in damp conditions is not recommended as this may lead to poor adhesion of subsequent topcoats. It is recommended that the overcoating interval is kept as short as possible. Consult International Protective Coatings for specific advice.

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

Interprime 539 has been designed as a primer for application to non-ferrous metals and galvanised steel surfaces.

The following topcoats are recommended for Interprime 539:

| Intercure 200 | Intergard 475HS |
|-----------------|-----------------|
| Intercure 200HS | Intergard 540 |
| Intercure 420 | Interlac 658 |
| Intergard 251 | Interplus 770 |
| Intergard 269 | Interplus 880 |
| Intergard 400 | Interprime 106 |
| Intergard 410 | Interseal 670HS |

Always ensure sufficient dry film thickness of any subsequent topcoat systems have been applied in order to adequately protect substrate.

Consult International Protective Coatings for further details.





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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 PRECAUTIONSThis 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 5 litre For availability of c | Vol 5 litre | Pack 5 litre zes, contact International Protective Coatings. |
|------------------------------|---|--|--|
| SHIPPING WEIGHT (TYPICAL) | Unit Size 5 litre | · | 8 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 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 icurrent prior to using the product.

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