

Alkyd

PRODUCT DESCRIPTION

A single component alkyd gloss enamel finish.

INTENDED USES

Maintenance coating for use in a wide range of industrial environments including offshore, petrochemical and chemical plants.

Suitable for areas of limited chemical exposure where an economical single pack finish coat is required.

As a cosmetic finish coat for alkyd based systems intended for both interior and exterior exposure.

PRACTICAL INFORMATION FOR DEVLAC 1431

| | |
|------------------------------|---|
| Color | Wide range via the Chromascan® system |
| Gloss Level | High Gloss |
| Volume Solids | 48% ± 3% (depends on color) |
| Typical Thickness | 1.6-2 mils (40-50 microns) dry equivalent to 3.3-4.2 mils (83-104 microns) wet |
| Theoretical Coverage | 481 sq.ft/US gallon at 1.6 mils d.f.t and stated volume solids 12 m ² /liter at 40 microns d.f.t and stated volume solids |
| Practical Coverage | Allow appropriate loss factors |
| Method of Application | Airless Spray, Roller, Air Spray, Brush |

Drying Time

| Temperature | Touch Dry | Hard Dry | Overcoating Interval with recommended topcoats | |
|--------------|-----------|----------|--|-----------------------|
| | | | Minimum | Maximum |
| 50°F (10°C) | 14 hours | 48 hours | 24 hours | Extended ¹ |
| 59°F (15°C) | 10 hours | 36 hours | 24 hours | Extended ¹ |
| 77°F (25°C) | 6 hours | 24 hours | 24 hours | Extended ¹ |
| 104°F (40°C) | 4 hours | 8 hours | 14 hours | Extended ¹ |

¹ See International Protective Coatings Definitions & Abbreviations

REGULATORY DATA

| | | |
|------------------------------|-------------------------|---------------|
| Flash Point (Typical) | 106°F (41°C) | |
| Product Weight | 9.3 lb/gal (1.11 kg/l) | |
| VOC | 3.50 lb/gal (420 g/lit) | 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.

Primed Surfaces

Devlac 1431 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Devlac 1431 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. SSPC-SP6 or Sa2½ (ISO 8501-1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Devlac 1431.

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 | Tip Range 13-19 thou (0.33-0.48 mm) Total output fluid pressure at spray tip not less than 2005 psi (141 kg/cm ²) | |
| Air Spray (Pressure Pot) | Recommended | Gun Air Cap Fluid Tip | DeVilbiss MBC or JGA 704 or 765 E |
| Brush | Recommended | Typically 1.0-1.6 mils (25-40 microns) can be achieved | |
| Roller | Recommended | Typically 1.0-1.6 mils (25-40 microns) can be achieved | |
| Thinner | Mineral Spirits | Do not thin more than allowed by local environmental legislation | |
| Cleaner | Mineral Spirits | | |
| Work Stoppages | Thoroughly flush all equipment with mineral spirits. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered prior to use. | | |
| Clean Up | Clean all equipment immediately after use with mineral spirits. 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 empty containers should be disposed of in accordance with appropriate regional regulations/legislation. | | |

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PRODUCT CHARACTERISTICS

Devlac 1431 is designed primarily for site application. Airless spray application at factory can easily lead to over-application with slow through drying and difficulty in handling. Over-application can also cause wrinkling on overcoating after aging. Alternative alkyd finishes are available which are more suitable for factory use. Contact International Protective Coatings for information on these products.

Level of sheen and surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

As with all alkyd systems, Devlac 1431 has limited chemical and solvent resistance and is not suitable for use in immersion situations or in conditions of continuous condensation.

Devlac 1431 is not designed for application over epoxies or polyurethanes, and should not be applied over zinc based primers because of dangers of saponification of the alkyd resin and consequent adhesion loss.

For brush and roller application, and in some colors, two coats of Devlac 1431 may be required to give uniform coverage.

Available in a wide range of colors produced via the Chromascan system.

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.

SYSTEMS COMPATIBILITY

Devlac 1431 is only suitable for application over alkyd or oleoresinous priming systems, e.g.:

Devprime 1401
Devprime 1403
Devprime 1405
Devprime 1407

Devlac 1431 is only suitable for overcoating with itself or other mineral spirits base primers or finishes.

For other suitable primers consult International Protective Coatings.

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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 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 | Vol | Pack |
| | 1 US gal | 1 US gal | 1 US gal |
| | 5 US gal | 5 US gal | 5 US gal |
| For availability of other pack sizes contact International Protective Coatings | | | |
| SHIPPING WEIGHT (TYPICAL) | Unit Size | | |
| | 1 US gal | | 9.7 lb |
| | 5 US gal | | 49.4 lb |
| STORAGE | Shelf Life | 24 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.

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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