

Made in the Kingdom of Bahrain



Omega 4145 Heat Resistant

Finish: Semi-Gloss
Type: Alkyd-based Topcoat

| Product Description | |
|--|---|
| Type | Options (Code) |
| This is a premium quality styrene modified oxidatively drying alkyd coating designed for use on steel surfaces exposed to fumes and ultra violet rays. Can be used as primer, mid coat or finish coat in atmospheric environments. | Heat Resistant (4145) |
| Features | Benefits |
| A one-component alkyd-based topcoat with heat resistance up to 110°C. The product has excellent adhesive properties on ferrous metals, high hiding and durable, is easy to apply and non-spattering. This product is mild chemicals and rust resistant and comes in semi-gloss finish and is specific to industrial use. | <ul style="list-style-type: none">• Semi-gloss• Heat-resisting up to 110°C• Excellent adhesive properties• One component• Easy to use |
| Typical Use | |
| Recommended as topcoat in atmospheric environments. Suitable for industry environments and buildings. Ideal for high heat chimneys and fireplaces that can handle temperatures up to 110°C | |
| Substrate | |
| <p>Ferrous Metals such as Steel and Iron.</p> <p>Substrate should have sufficient strength to receive the paint. Any defects in the substrate like surface undulations, cracks, pin holes, etc., should be rectified / filled before starting painting. The compatibility of any third-party filling material, if used, should be confirmed with Omega Paints® before application.</p> | |

Product Data

Colors

Black

Packaging Size

1 L , 4 L

Solids Contents

45% +/- 2% volume theoretical

Volatile Organic Compounds (VOC)

425 - 450 g/l

VOC Comments

This is the theoretical value. Tested value will vary depending on test methodology, accuracy of equipment used for testing and test conditions

Application Method

Painting Tools

Roller: Use a suitable roller. Care must be taken to achieve the specified dry film thickness.

Brush: Recommended for stripe coating and small areas.

Care must be taken to achieve the specified dry film thickness.

Spray: Use air or airless spray

Guidelines for Airless Spray

Nozzle tip 1.4 to 1.6 mm

Pressure at Nozzle 2.5 bar

Distance from air compressor to filters is to be at least 10 m.

The product must be sprayed by professionals only.

Cleaning of Painting Tools

Omega 9011 Cleaning Thinner

Physical Characteristics

Film Thickness per Coat

Typical recommended range

Dry film thickness 20 - 30 μm

Wet film thickness 45 - 65 μm

Film thickness will vary and is calculated at average

Theoretical Spreading Rate (TSR)

12.0 - 18.0m² per liter

Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.

Maximum spread rate per coat is obtained at minimum dry film thickness and vice versa.

| Specific Gravity | Flash Point | Viscosity |
|-------------------------------|-------------|------------|
| 0.90 - 1.00 g/cm ³ | 32°C / 90°F | 50 - 60 KU |

Application Conditions

Stir thoroughly before and during use

To secure lasting adhesion all surfaces shall be clean, dry and free from any contamination

| Surface temperature during application | Thinner | Dilution |
|---|----------------------------|-------------|
| The temperature of the substrate should be a minimum of 10°C and at least 3°C above the dew point of the air, measured in the vicinity of the substrate | Omega 9000 White Spirit | Maximum 10% |

Moisture content must be below 17%

Good ventilation is usually required in confined areas to ensure proper drying

Drying Times

| Substrate temperature | 10°C | 23°C | 40°C |
|---------------------------|------|------|-------|
| Surface (touch) dry | 2 h | 1 h | 0.5 h |
| Walk-on-dry | 14 h | 10 h | 8 h |
| Dry to over coat, minimum | 8 h | 4 h | 2 h |

Measured by Relative Humidity (RH) 50%

Drying and curing times are determined under controlled temperatures and relative humidity below 85%, and are generally related to air circulation, film thickness, and number of coats.

1. Recommended data given is, for reciting with the same generic type of paint.
2. In case of multi-coat application, drying times will be influenced by the number and sequence and by the total thickness of previous coats applied
3. The surface should be dry and free from any contamination prior to application of the subsequent coat.

Recommended Paint System

Primer

Suitable primer

Filler

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Topcoat

Omega 4145 Heat Resistant x 2 coats

Remarks

Other systems may be specified, depending on area of use and surface condition. Packaged contents with different batch numbers must be mixed together before use.

Directions of Use

Surface Preparation

Surface must be sound, clean, dry and free from dust, grease, oil, latencies, etc.

Remove any peeling or scaling paint and sand these areas to feather edges smooth with adjacent surfaces. Glossy areas should be dulled. Drywall surfaces must be free of sanding dust.

Wood Surface

Surfaces with grease, oil, or other contamination is to be removed by detergents and fresh water cleaning. To secure lasting adhesion to the subsequent product all surfaces shall be clean and dry.

Steel Surface

Steel should be cleaned by solvent, power tool, white metal blast, power tool cleaning to bare metal, brush-off blast, near-white blast, or water blasting depending on the surface condition.

Previously Coated Surface

Maintenance painting will frequently not permit or require complete removal of all old coatings prior to repainting. However, all surface contamination such as oil, grease, loose paint, mill scale, dirt, foreign matter, rust mold, mildew, mortar, efflorescences and sealers must be removed to assure sound bonding.

Applicators

The product is suitable for both professional and consumer application. The product must be sprayed by professionals only. The applicators shall be trained, experienced and have the capability and equipment to mix and apply the coatings correctly and according to Omega's technical documentation. Applicators shall use appropriate personal protection equipment when using this product. This guidelines is given based on the current knowledge of the product.

Difficult Substrates

Omega Paints® offers a number of specialty primers for use over difficult substrates. Your Omega Paints® representative can recommend the right problem-solving primer for your special needs.

Certifications

| | Parameter | Test Method |
|---|----------------------------------|------------------------|
| 1 | Volatile Organic Compounds (VOC) | BS EN ISO 11890-2:2006 |
| 2 | Solids by volume | ISO 3233 |
| 3 | Flash Point | ISO 3679 Method 1 |
| 4 | Gloss level (GU 60°C) | ISO 2813 |

Color: Black

Copy of certificate and additional certificates and approvals available on request.

Storage and Handling

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf Life : 24 month(s)

Sealed and kept at normal temperature (not in direct sunlight)

Health and Safety

Apply under well-ventilated conditions. Do not breathe or inhale mist. When applying, wear air-mask and avoid skin contact. Spillage on skin should be immediately removed with suitable cleanser, soap, or water. Eyes should be well flushed with water and medical attention to be sought immediately. Please observe the environmental and precautionary notices displayed on the container.

Material Safety Data Sheet

A material safety data sheet for the product has been issued.

Detailed information regarding health and safety risks and precautions for the use of this product is specified in the product's Safety Data Sheet.

First-aid measures, refer to section 4

Handling and storage, refer to section 7

Transport information, refer to section 14

Regulatory information, refer to section 15

Disclaimer

The information in this document is given to the best of Omega's knowledge, based on laboratory testing, practical experience, and good faith.

Omega's products are manufactured to rigid standards, is considered as semi-finished goods and as such, products are often used under conditions beyond Omega's control. Omega cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements.

The company pursues a policy of continuous improvement in products, and as such, Omega reserves the right to change the given data without further notice. Users should always consult Omega for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English version will prevail.

Contact Omega's representative or visit www.omega-paints.com for more info.

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