

Made in the Kingdom of Bahrain

## Omega 4016 Unicryl Therma

Finish: Silk  
Type: Acrylic-based Emulsion Paint - Exterior Use



Product Description	
Type	Options (Code)
This product is a premium quality heat-reflecting topcoat based on acrylic elastomeric copolymer and designed with weatherproof and anti-carbonation technology to provide long-lasting protection on the villa's exteriors.	Silk (4016)
Features	Benefits
Flexible and breathable heat-reflecting topcoat protects from visible radiation and infrared rays and can lower roof and wall surface temperatures by as much as 37°F (EPA), with 80-85% solar reflectance and 90%-95% total emittance. This product is designed to withstand harsh weather conditions with anti-cracking and anti-blistering.	<ul style="list-style-type: none"><li>• Heat-Reflecting Topcoat</li><li>• Designed for extreme dry and wet conditions</li><li>• Exceptional color stability</li><li>• Environmentally-friendly</li><li>• Easy to use</li></ul>
Recommended Use	
Ideal for areas subject to high heat and sun exposure such as in beach villas and desert palaces and in wet areas considering its breathable water-repellant properties.	
Substrate	
Cement Plaster, Concrete, Block Work, Gypsum Board and Rendered Surfaces.  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.	

## Product Data

### Colors

White and all exterior colors available in Omega

### Packaging Size

5 L , 5 USG

### Solids Contents

40% +/- 2% volume theoretical

55% +/- 2% weight theoretical

### Volatile Organic Compounds (VOC)

20 g/l to 25 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: Recommended

Brush: Recommended to paint corners and edges

Spray: Airless spray or Conventional spray

### Guidelines for Airless Spray

Nozzle tip 0.021" to 0.027"

Spray angle degrees 65° to 80°

Pressure at Nozzle 140-190 kg/cm<sup>2</sup> ( 2100 psi )

### Cleaning of Painting Tools

Water

## Physical Characteristics

### Film Thickness per Coat

Typical recommended range

Dry film thickness 80 - 125 µm

Wet film thickness 200 - 250 µm

Film thickness will vary and is calculated at average

### Theoretical Spreading Rate (TSR)

7.0 - 9.5m<sup>2</sup> 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	Opacity	Viscosity
1.18 g/cm <sup>3</sup>	96.7%	116-126 KU

## Application Conditions

### Stir thoroughly before and during use

This product is not for use on areas that are continually wet like showers

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	Water	Maximum 10%

### Moisture content must be below 12%

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	12 h	6 h	2 h
Hard dry	16 h	8 h	4 h
Dry to over coat, minimum	12 h	6 h	2 h

## Measured by Relative Humidity (RH) 50%

Drying times are generally related to air circulation, temperature, film thickness, and number of coats, and will be affected correspondingly.

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

Omega 2016 Unicryl Signature Primer x 1 coat

### Filler

Omega 6000 Unicryl Putty and/or Omega 6004 Powder Filler x 2 coats  
For cases of undulations or wall defects consider Omega 6001 Block Filler

### Topcoat

Omega 4016 Unicryl Therma 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.

### Plaster Condition

New plaster or masonry surfaces must be allowed to cure for 30 days before applying base coat. Cured plaster should be hard, have a slight sheen; soft, porous or powdery plaster indicate improper cure.

### Caution

Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds.

Smooth planed clapboards or siding must be sanded thoroughly to break the mill glaze allowing proper penetration and adhesion

### 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	Tension Testing	ASTM D412
2	Degree of Rusting (820 hrs)	ASTM D610-01
3	Artificial Weathering (820 hrs)	ASTM D660-93
4	Resistance to Cracking (820 hrs)	ASTM D661-93
5	Resistance to Blistering (820 hrs)	ASTM D714-02
6	Resistance to Flaking (820 hrs)	ASTM D772-86
7	Resistance to Chalking (820 hrs)	ASTM D4214-98
8	Abrasion Resistance	ASTM D968-05
9	Scrub Resistance	ASTM E903-96, ASTM E1980-01
10	Near-Normal Emittance	ASTM E408-71

Color: White

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 : 12 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](http://www.omega-paints.com) for more info.

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