

Made in the Kingdom of Bahrain

Omega 4030 UniSeal Elastomeric Coating

Finish: Flat
Type: Acrylic-based Paint - Waterproofing



Product Description

Type

A one part, elastomeric coating based on UV curing acrylic copolymer dispersion. This product has excellent flexibility, breathing properties, sealing and elongation properties, water resistance, crack bridging properties, weathering durability, and excellent resistance to growth of microbial organisms. It is a self curing and non toxic waterproofing solution for climate and tropical conditions.

Options (Code)

UniSeal (4030)

Features

This product is designed as a waterproof, weatherproof, protective and decorative coating. It forms a tough film giving very good resistance against weathering and ageing with excellent waterproofing capability. It protects buildings from corrosive atmosphere and is UV rays and dirt pick-up resistant, non sag, and easy to clean.

Benefits

- Waterproofing capability
- Elastomeric with excellent crack-bridging ability
- Resistant to chloride
- Water vapor permeable
- Environmentally friendly

Recommended Use

Internal and external concrete, masonry walls, wood, cement mortar, rendered surfaces, dry wall surfaces like gypsum, and surfaces exposed to saline environment.

Substrate

Asphalt, Concrete, Plaster, Wood, Gypsum and Rendered Surfaces.

Substrate should have sufficient strength to receive the paint. The compatibility of any third-party filling material, if used, should be confirmed with Omega Paints® before application.

Product Data

Colors

White and Gray

Packaging Size

5 L , 20 KG

Solids Contents

45% +/- 2% volume theoretical

Volatile Organic Compounds (VOC)

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 0.018" to 0.027"

Spray angle degrees 65° to 80°

Pressure at Nozzle 140-190 kg/cm² (2100 psi)

Cleaning of Painting Tools

Water

Physical Characteristics

Film Thickness per Coat

Typical recommended range

Dry film thickness 100 - 250 µm

Wet film thickness 200 - 500 µm

Film thickness will vary and is calculated at average

Theoretical Spreading Rate (TSR)

1.0 - 2.0m² 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 | Opacity | Viscosity |
|-------------------------------|---------|--------------|
| 1.25 - 1.35 g/cm ³ | — | 130 - 140 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 15% |

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 | 4 h | 2 h | 1 h |
| Hard dry | 12 h | 6 h | 3 h |
| Dry to over coat, minimum | 12 h | 6 h | 3 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 4030 UniSeal (15% diluted) x 1 coat

Filler

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Topcoat

Omega 4030 UniSeal 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 to be hard, have a slight sheen; soft, porous or powdery plaster indicate improper cure.

Surface Cracks

Cracks below < 1.55mm should be strip coated with approx. 120mm before subsequent coat. Rough surface areas should be primed first with Omega Uniseal 4030 diluted by 15% with sweet water.

Caution

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

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 | Tensile Adhesion Strength | ASTM D 2370 |
| 2 | Elongation at Break | ASTM D 2370 |
| 3 | Tear Resistance | ASTM D 624 |
| 4 | Water Resistance (70 hrs @ 100°C) | ASTM D 471 |
| 5 | Accelerated Weathering | ASTM D 4798 |
| 6 | Water Vapor Permeance | ASTM D 1653 |
| 7 | Fungi Resistance | ASTM G 21 |

Color: White

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

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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 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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