

Made in the Kingdom of Bahrain

Omega 2222 Unipox ZR Primer

Finish: Flat
Type: Epoxy-based Primer - Zinc-Phosphate



Product Description	
Type	Options (Code)
This is a two component amide cured zinc rich epoxy primer. This product contains very high zinc content to deliver cathodic and heavy duty corrosion protection as part of a complete coating system. To be used in atmospheric environments where exposure to severe corrosion is possible.	Zinc-Rich Primer (2222)
Features	Benefits
Suitable for structural steel and piping exposed in severe corrosive environments. It offers protection on ferrous and weathered galvanized metal in atmospheric environments. This product is not for use in immersion service and for non-metal surfaces. The product can be left without a topcoat and is specially designed as a primer for coating systems where extended durability is required.	• High zinc content • For severe corrosive environments with strong resistance • Fast dry-to-recoat and dry-to-handle
Typical Use	
Recommended for offshore environments, refineries, power plants, bridges, buildings and mining equipment in areas exposed to high-to-severe corrosive environments.	
Substrate	
Galvanized Metal, Reinforced Steel, Masonry, Concrete Floors, Coated 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

Gray

Packaging Size

5 L (A+B)

Solids Contents

55% +/- 2% volume theoretical

Volatile Organic Compounds (VOC)

400 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

Product Mixing

Component A 7.5 part(s)

Component B 1 part(s) Omega 8222 Hardener

This product is a two-component product supplied with the base (Component A) and the hardener (Component B). Add the entire contents of the Component B to the base Component A and mechanically mix for the two components for 2 minutes.

Pot life: 8 hours

Cleaning of Painting Tools

Omega 9011 Cleaning Thinner

Physical Characteristics

Film Thickness per Coat

Typical recommended range

Dry film thickness 75 - 250 µm

Wet film thickness 100 - 340 µm

Film thickness will vary and is calculated at average

Theoretical Spreading Rate (TSR)

3.5 - 10.5m² 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
2.40 - 2.75 g/cm ³	23°C / 72°F	88-95 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 9020 Epoxy	Maximum 15%

Moisture content should not exceed 4%

Relative Humidity should not exceed 80%

Minimum and maximum temperature should be 23°C and 40°C respectively

Drying Times

Substrate temperature	10°C	23°C	40°C
Surface (touch) dry	12 h	4 h	1 h
Walk-on-dry	24 h	8 h	4 h
Dry to over coat, minimum	24 h	8 h	4 h
Dried/cured for service	16 d	8 d	4 d

Ventilation : Sufficient ventilation is very important to ensure proper drying/curing of the film.

Drying and curing times are determined under controlled temperatures and relative humidity below 75%, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints, or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat is applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Recommended Paint System

Primer

Omega 2222 Unipox Zinc-Rich Primer x 1 coat

Filler

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Topcoat

Omega Unipox series 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 Cleaning

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.

Surface Preparation

The required quality of surface preparation can vary depending on the area of use, expected durability, and if applicable, project specification. The substrate should be mechanically abraded to leave a clean, sound, stable base on to which Omega Epoxy system can be applied. Preferred method of abrading the substrate is diamond disc grinding or dust free captive blasting. Both the equipment should be connected to an industrial vacuum machine for a dust free environment.

Concrete Repairs

Use Unipox 6600 Putty and other recommended filler and products to fill blow holes and cracks.

Substrate Tolerance

The substrate should be prepared to the appropriate tolerance prior to the application of coating. Tolerance's can be corrected as a separate operation which must be completed before installing the coating. Coating will generally follow the contours of the substrate and have the same tolerance's as the substrate to which it is applied. Applicators are advised to check the tolerances of the substrate before they begin with the preparation.

Acceptable Environmental Conditions

All cementitious substrate should be 28 days old. Test the atmospheric conditions in the vicinity of the substrate for the dew formation according to ISO 8502-4. The moisture content should not exceed 4%, and the PH of the concrete should be 7-9.

Application Restrictions

Only apply the coating when the substrate temperature is at least 3°C above the dew point. Do not apply the coating if the substrate is wet or likely to become wet, if the weather is clearly deteriorating or unfavorable for application or curing, and/or in high wind conditions.

Certifications

	Parameter	Test Method
1	Specific Gravity	BS EN ISO 2811-1:2011
2	Opacity	BS EN ISO 2814:2006
3	Gloss level (GU 60°C)	BS EN ISO 2813:2014
4	Volatile Organic Compounds (VOC)	USEPA Method 24
5	Viscosity @ 25°C	ASTM D2486
6	Touch Drying Time	By touching
7	Solids Content	BS EN ISO 3251:2008
8	Scrub Resistance	ASTM D 2486
9	Chemical Resistance : Hydrochloric Acid, Sodium Hydroxide, Oils, Minerals	ASTM D 1308

Color: Gray

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.

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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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